



SAFETY DATA SHEET

according to HCS 2024 (29 CFR 1910.1200)

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

Material number 016/17x

Revision date: 3/2/2026
Version: 8.6
Replaces version: 8.5
Language: en-US
Date of print: 5/29/2026

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1. Identification

Product identifier

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

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

Relevant identified uses of the substance or mixture and uses advised against

General use: Refined steel-Article for orthopedic procedures.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care
Street/POB-No.: 3820 W. Great Lakes Drive
Zip code, city: Salt Lake City, UT 84120
USA

WWW: www.ottobockus.com

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Department responsible for information:

Quality Department,
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),
Email: USRegulatory@ottobock.com

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

Emergency telephone number

CHEMTREC, Telephone: +1 (800) 424-9300

2. Hazard identification

Classification of the substance or mixture

Article not subject to hazard labelling or classification.

Label elements

not applicable

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Other hazards

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

Mixtures

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

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:	Refined steel-dust: Wash with plenty of water. Change contaminated clothing.
After 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.
After 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.

Most important symptoms/effects, acute and 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.

Information to physician

Treat symptomatically.

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 chemical

None known. Product is non-combustible.

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

Methods for clean-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.

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8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7440-02-0 Nickel	16/17x - Stainless Steel, contains Nickel < 1%	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)
		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)

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.

Personal protection equipment (PPE)

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.
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 68 °F and 101.3 kPa	Form: solid, in pieces
Color:	silver gray
Odor:	odorless
Odor threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Explosion limits:	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
Viscosity:	No data available
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	No data available
Density:	No data available
Vapor density:	No data available
Particle characteristics:	Not applicable

Additional information

Additional information: No data available

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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 toxicological effects

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

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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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

DOT, IMDG, IATA-DGR: not applicable

UN proper shipping name

DOT, IMDG, IATA-DGR: Not restricted

Transport hazard class(es)

DOT, IMDG, IATA-DGR: not applicable

Packing group

DOT, IMDG, IATA-DGR: not applicable

Environmental hazards

Marine pollutant: no

Transport in bulk according to IMO instruments

No data available

Special precautions for user

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

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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 - 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
New York Right-To-Know: listed

Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labeling: Contains Nickel. May produce an allergic reaction.

Revision date: 3/2/2026

Date of first version: 11/26/2008

Reason of change: Changes in section 8: Biological Limit Value

Hazard rating systems: 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



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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
DOT: Department of Transportation's Safety Regulations (USA)
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
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

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.