

## 1 Identification

### Product identifier

Trade name: 2/4/xRx - Stainless Steel

### Other means of identification

This safety data sheet pertains to the following products:

2R3 - Tube Adapter

2R45 - Adjustment Tube Adaptor

2R45=S - Tube Adapter

2R76, R77 - Internal Tube Adaptor

4R39 - Torsion Adaptor

7U2, 7U5, 7U10 - Orthopedic Steel Knee Joint Bars, medium duty

7U27, 7U30, 7U32, 7U33, 7U42 - Stainless Steel Knee Joint Bars, light duty

7U43 - Orthopedic Steel Knee Joint Bars, light duty

7U46, 7U53, 7U54 - Stainless Steel Knee Joint Bars, light duty

16X4 - Elbow Joints

16X12, 16X13 - Elbow Joint Set With Draw Lock

16X14 - Elbow Joint Set Without Lock

17B5, 17B7, 17B87 - Lower Side Bar

17B4, 17B6, 17B86 - Upper Side Bar

17B38, 17B40 - Stainless Steel System Side Bar Set

17B84 - Stainless Steel System Rounded Side Bar Set

17B95, 17B96 - Stainless Steel Knee Joint With Wedge Lock and Pull-Release Cable

17H28, 17H29 - Stainless Steel Hip Joint For Children

17K29 - Stainless Steel Knee Joints For Children

17K32 - Stainless Steel Limited Motion Knee Joints For Children

17K33 - Stainless Steel Free-Motion Offset Knee Joints For Children

17K34 - Stainless Steel Knee Joints With Swiss Lock for Children

17M10-S, 17M11 - Posterior Free Joints (Steel)

17M20=16, 17M20=20 - Option Ring Lock - Stainless Steel

17M20=C - Duchenne Stirrup

17M30=13, 17M31=13 - Bale Lock

17M100 - Push Lock Hinge - Stainless Steel

### Recommended use and restrictions on use

General 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  
Canada  
WWW: www.ottobock.ca  
Email: 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

### Other hazards known to the supplier with respect to the product

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.

## 3 Composition/Information on ingredients

### Material/substance

Chemical name: Article of steel, stainless

## 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: Wash with plenty of water.

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**

In case of eye contact / in case of inhalation, Dust: May cause irritations.  
Lung damage is possible in a chronic situation.

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

Treat symptomatically.

**5 Fire-fighting measures****Suitable and unsuitable extinguishing media**

Suitable extinguishing media:

Use extinguishing material as appropriate for the surrounding area.

**Specific hazards arising from the product**

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.

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store in a dry place.

## 8 Exposure controls/Personal protection

### Control parameters

Occupational exposure limit values:

Type	Limit value
Canada: Alberta, OEL 8 hour	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: Alberta, OEL 8 hour	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: BC, OEL TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: BC, OEL TWA	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: Québec, VEMP	10 mg/m <sup>3</sup> (total dust)
Canada: Québec, VEMP	3 mg/m <sup>3</sup> (total dust, respirable fraction)

### 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.
Eye protection:	For mechanical processing: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010 or face protection shield.
Body protection:	For mechanical processing: Wear suitable protective clothing.
General hygiene considerations:	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

## 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

## 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

In case of inhalation: Dust: May cause irritations.

Lung damage is possible in a chronic situation.

After eye contact: Dust: May cause irritations.

### General remarks

For mechanical processing:

Formation of potentially hazardous splinters.

Refined steel-dust: May cause irritations.

## 12 Ecological information

### Ecotoxicity

Further details: No data available

### 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

### 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

No data available

### Further regulations, limitations and legal requirements

No data available

## 16 Other information

Revision date: 17/12/2025

Date of first version: 28/10/2008

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022  
General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

#### 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  
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

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.