

2/4/xRx - Stainless Steel

Material number 002/4/xRx

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1. Product and company identification**Product identifier**

Trade name: 2/4/xRx - Stainless Steel

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

Postal Code, city: Salt Lake City, UT 84120
USA

WWW: www.ottobockus.com

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Dept. responsible for information:

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

Additional information: 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

Emergency phone number**CHEMTREC, Telephone: +1 (800) 424-9300**

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2. Hazards identification

Emergency overview

Appearance: Form: solid, in pieces
Color: silver gray
Odor: odorless
Classification: This substance is classified as not hazardous.

Regulatory status

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

Hazards not otherwise classified

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

3. Composition / Information on ingredients

Chemical characterization: Article of steel, stainless

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: Wash with plenty of water.
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: Swallowing is not regarded as a possible way of exposition.
Refined steel-dust:
Rinse mouth and drink large quantities of water. Seek medical attention if problems persist.

Most important symptoms/effects, acute and delayed

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

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 protective equipment.
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:

Type	Limit value
USA: ACGIH: TWA	10 mg/m ³
USA: ACGIH: TWA	3 mg/m ³
USA: OSHA: TWA	15 mg/m ³
USA: OSHA: TWA	5 mg/m ³

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 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.
Wash hands before breaks and after work.
Provide a conveniently located eye rinse station.

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 value:	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.
- 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

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

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

USA: Department of Transportation (DOT)

Proper 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 - U.S. Federal Regulations

formation of Dust and glass-fibers, NFPA/HMIS: H1

Refer to 29 CFR Part 1910 subpart q - Welding, Cutting, Brazing 1910.252.

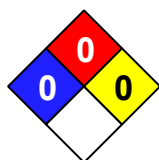
TSCA: listed

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 0 (Minimal)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 0 (Minimal)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Reason of change: Changes in section 1: Address

Date of first version: 10/28/2008

Department issuing data sheet

Contact person: see section 1: Dept. 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.