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 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
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
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.

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

Advises 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:

<table>
<thead>
<tr>
<th>Type</th>
<th>Limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA: ACGIH: TWA</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>USA: ACGIH: TWA</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>USA: OSHA: TWA</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>USA: OSHA: TWA</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

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:
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

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

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
Additional 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
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

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.