

## 1. Product and company identification

### Product identifier

Trade name: SL=x - Carbon Foot Plates

This safety data sheet pertains to the following products:

SL=A - Arched Carbon Foot Plates

SL=CFP - Contoured Carbon Foot Plates

SL=F - Flat Carbon Foot Plates

SL=HA - Half Inch Arched Carbon Foot Plates

SL=ME-C - Mortons Extension-Contoured

SL=ME-F - Mortons Extension-Flat

SL=MEL-C - Mortons Extension Long-Contoured

SL=MEL-F - Mortons Extension Long-Flat

SL=SAS-F - Spring Arch Supports

SL=SAS-M - Spring Arch Supports

### Recommended use and restrictions on use

General use: Article: carbon fibers-plate for orthopedic procedures.

### 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](http://www.ottobock.ca)

E-mail: [info.canada@ottobock.com](mailto: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 phone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

## 2. Hazards identification

### Emergency overview

Appearance: Form: solid, plate

Color: black

Odor: odorless

Classification: Article not subject to hazard labeling or classification.

### Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 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 section 7: Handling, section 8: Exposure controls / personal protection and section 11: Toxicology.

Fine dust: danger of dust explosion.

see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterisation: Article:

Plate, contains mixture with carbon fibers

## 4. First aid measures

General information: For mechanical processing: dust formation.

Seek medical treatment in case of troubles.

In case of inhalation: Provide fresh air.

In case of troubles after inhalation of dust:

Move victim to fresh air. Seek medical attention.

Following skin contact: Dust:

Remove residues with soap and water. Seek medical treatment in case of troubles.

After eye contact: Dust:

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: Ingestion is not considered a possible route of exposure.

Dust:

Rinse mouth and drink large quantities of water. Seek medical attention if problems persist.

### Most important symptoms and effects, both acute and delayed

For mechanical processing: mild irritant

### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

### Specific hazards arising from the chemical

In case of fire may be liberated: carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus.

## 6. Accidental release measures

**Personal precautions:** Avoid generation of dust. Provide adequate ventilation.  
In the case of the formation of dust:  
Eliminate all ignition sources if safe to do so.  
Do not breathe dust. Ensure adequate ventilation, especially in confined areas. Wear protective equipment. Avoid contact with skin and eyes.

**Environmental precautions:** Discharge into the environment must be avoided.

**Methods for clean-up:** Carbon fibers-dust: Take up mechanically, placing in appropriate containers for disposal.

## 7. Handling and storage

### Handling

**Advices on safe handling:** For mechanical processing:  
Provide adequate ventilation. Avoid generation of dust.  
Wear protective equipment. The use of local exhaust ventilation is recommended.

**Precautions against fire and explosion:**  
Carbon Fiber is electrically conductive. It can cause short circuits within electrical equipment, if material dusts penetrate into the ambient air.

### Storage

**Requirements for storerooms and containers:**  
Store at room temperature. Keep away from heat.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

Type	Limit value
Canada: OEL 8 hour	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: OEL 8 hour	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: OEL TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: OEL TWA	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: VEMP	10 mg/m <sup>3</sup> (total dust)
Canada: VEMP	3 mg/m <sup>3</sup> (total dust, respirable fraction)
USA: ACGIH: TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
USA: ACGIH: TWA	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
USA: OSHA: TWA	15 mg/m <sup>3</sup> (Dust limit value, total dust)
USA: OSHA: TWA	5 mg/m <sup>3</sup> (Dust limit value, respirable fraction)

### Engineering controls

For mechanical processing:

Provide adequate ventilation. The use of local exhaust ventilation is recommended.

See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection:

For mechanical processing:

Tightly sealed safety glasses according to  
OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003.

Skin protection:

For mechanical processing: Wear suitable protective clothing.

For mechanical processing:

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection:

For mechanical processing:

Dust mask.

Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2

General hygiene considerations:

Avoid generation of dust.

Wash hands before breaks and after work.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:

Form: solid, plate

Color: black

Odor:

odorless

Odor threshold:

No data available

pH:

No data available

Melting point/freezing point:

No data available

Initial boiling point and boiling range:

No data available

Flash point/flash point range:

No data available

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:

carbon fibers: 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:	Refer to 10.3.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Fine dust: danger of dust explosion.
Conditions to avoid:	Keep away from heat.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	In case of fire may be liberated: carbon monoxide and carbon dioxide.
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.
	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

For mechanical processing: mild irritant

### General remarks

For mechanical processing:  
Carbon fibers-dust: mild irritant.  
Possible in traces: formation of WHO-fibers. classification WHO-fibers: Causes concern for man owing to possible carcinogenic effects.

## 12. Ecological information

### Ecotoxicity

Further details:	No data available
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### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

Volatile organic compounds (VOC):

0 % by weight

General information: Discharge into the environment must be avoided.

## 13. Disposal considerations

### Product

Recommendation: Incinerate according to applicable local, state and federal regulations.

### Package

Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.

## 14. Transport information

### UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

### UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

### Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

### Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

### Environmental hazards

Marine pollutant:

no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

### 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

### 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

No data available

## 16. Other information

Hazard rating systems:



### NFPA Hazard Rating:

Health: 1 (Slight)  
Fire: 1 (Slight)  
Reactivity: 0 (Minimal)

### HMIS Version III Rating:

Health: 1 (Slight)  
Flammability: 1 (Slight)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 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  
 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  
 MFSU: Manufacture, formulation, supply and use  
 OEL: Occupational Exposure Limit Value  
 OSHA: Occupational Safety and Health Administration  
 PBT: Persistent, bioaccumulative and toxic  
 PNEC: Predicted no-effect concentration  
 RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
 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  
 WHMIS: Workplace Hazardous Materials Information System

Reason of change: General revision

Date of first version: 17/11/2008

### 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.