

SL=x - Carbon Foot Plates

Material number SL=x

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

Trade name: SL=x - Carbon Foot Plates

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

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

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
USAWWW: 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:

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

Corporate headquarters:

Ottobock SE & Co. KGaA

Max-Näder-Straße 15

Duderstadt

Germany

Emergency phone number**CHEMTREC, Telephone: +1 (800) 424-9300****2. Hazards identification****Emergency overview**

Appearance: Form: solid, plate

Color: black

Odor: odorless

Classification: This substance is classified as not hazardous.

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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 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 characterization: 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: Swallowing is not regarded as a possible way of exposition.
Dust:
Rinse mouth and drink large quantities of water. Seek medical attention if problems persist.

Most important symptoms/effects, 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, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

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Specific hazards arising from the chemical

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

Protective equipment and precautions for firefighters:

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
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

For mechanical processing:
Provide adequate ventilation. The use of local exhaust ventilation is recommended.
See also information in chapter 7, section storage.

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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.

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 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: 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: No data available.
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions
Fine dust: danger of dust explosion.

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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

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.

Contaminated packaging

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

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

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

National regulations - Great Britain

Hazchem-Code: -

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



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

SL=x - Carbon Foot Plates

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Version: 6

Language: en-US

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Reason of change: Changes in section 1.3: Corporate headquarters

Date of first version: 11/17/2008

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.