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
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:
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

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.

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.

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 fog, foam, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:
High power water jet.

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/m³
USA: ACGIH: TWA	3 mg/m³
USA: OSHA: TWA	15 mg/m³
USA: OSHA: TWA	5 mg/m³

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.

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.

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.
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

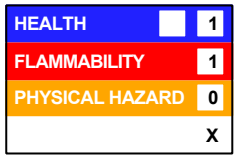
Hazchem-Code: -

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



Reason of change: Changes in section 1: Address
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.