

SL=P071-A - Footshell Foam Kit Part A

Material number SL=P071-A

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1 Identification

Product identifier

Trade name: SL=P071-A - Footshell Foam Kit Part A

Recommended use and restrictions on use

General use: Elastomer for orthopedic procedures.
For use in industrial installations and professional treatment only.

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
Email: info.canada@ottobock.com
Telephone: (800) 665-3327
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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 telephone number

COLLECT, Telephone: (613) 996-6666

2 Hazard identification

Classification

Acute Toxicity 4 (inhalative)	Harmful if inhaled.
Skin Irritation 2	Causes skin irritation.
Eye Irritation 2A	Causes serious eye irritation.
Respiratory Sensitizer 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Sensitization - skin 1	May cause an allergic skin reaction.
Carcinogenicity 2	Suspected of causing cancer.
Specific Target Organ Toxicity (Single Exposure) 3	May cause respiratory irritation.
Specific Target Organ Toxicity (Repeated Exposure) 2	May cause damage to organs through prolonged or repeated exposure.

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Information elements

Symbols:



Signal word:

Danger

Hazard statements:

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
[In case of inadequate ventilation] wear respiratory protection.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Other hazards known to the supplier with respect to the product

Contact with water liberates carbon dioxide. Do not re-seal contaminated containers as pressure buildup may rupture.

3 Composition/Information on ingredients

Mixture

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 101-68-8	4,4'-Methylenediphenyl diisocyanate	50 - 75 %	Acute Toxicity 4 (inhalative). Skin Irritation 2. Eye Irritation 2A. Respiratory Sensitizer 1. Sensitization - skin 1. Carcinogenicity 2. Specific Target Organ Toxicity (Single Exposure) 3. Specific Target Organ Toxicity (Repeated Exposure) 2.

The actual concentration or concentration range is withheld as a trade secret.

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4 First-aid measures

Description of necessary first-aid measures

General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Immediately get medical attention.
In case of swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.
In case of skin contact:	After contact with skin, wash immediately with soap and plenty of water. Seek medical treatment in case of troubles.
In case of eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. No specific antidote exists.
Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 24 hours after exposure.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Extinguishing powder, Additionally: carbon dioxide, foam, water spray jet.

Specific hazards arising from the product

Contact with water liberates carbon dioxide.
May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Isocyanates, nitrogen oxides (NOx), hydrogen cyanide, carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

	Wear a self-contained breathing apparatus and chemical protective clothing.
Additional information:	If water is used to extinguish fire, the use of large doses is needed, as the reaction between water and hot isocyanates may be vigorous. Do not re-seal contaminated containers as pressure buildup may rupture.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid exposure. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Do not breathe vapours. Avoid contact with skin and eyes.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Keep container in a well-ventilated place. Neutralization: Ammonia solution (8%) and Surfactants (2%). Allow to rest for 48 hours, letting developing CO2 escape.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Use local exhaust. Do not breathe vapours.

Avoid contact with skin and eyes.

Wear suitable protective clothing.

Use caution when opening containers under pressure.

Obtain special instructions before use.

Wash hands before breaks and after work.

When using do not eat, drink or smoke.

Safety shower and eye wash station should be easily accessible to the work area. Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Contact with water liberates carbon dioxide. Do not re-seal contaminated containers as pressure buildup may rupture.

Protect from moisture contamination.

In case of warming: Danger of bursting container.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 20 °C and 30 °C.

Avoid temperatures exceeding 65 °C.

Store under protective gas (nitrogen). Protect from frost.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Reacts with water, acids, bases, metals and surface active materials.

Further details:

Protect from heat and direct sunlight.

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8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
101-68-8	4,4'-Methylenediphenyl diisocyanate	Canada: Alberta, OEL 8 hour	0.05 mg/m ³ ; 0.005 ppm
		Canada: BC, OEL Ceiling	0.01 ppm
		Canada: BC, OEL TWA	0.005 ppm
		Canada: Ontario, OEL Ceiling	0.02 ppm
		Canada: Ontario, OEL TWA	0.005 ppm
		Canada: Québec, VEMP	0.051 mg/m ³ ; 0.005 ppm

Appropriate engineering controls

Provide adequate ventilation, and local exhaust as needed.

Individual protection measures, such as personal protective equipment

- Respiratory protection: When vapours form, use respiratory protection.
Use filter type A (= against vapours of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
- Hand protection: protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: butyl caoutchouc (butyl rubber) - Layer thickness: 0.7 mm
Breakthrough time: >120 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- General hygiene considerations:
Obtain special instructions before use. Do not breathe vapours.
Wash hands before breaks and after work.
When using do not eat, drink or smoke.
Safety shower and eye wash station should be easily accessible to the work area.
Persons working with this product should not wear contact lenses.
Take off contaminated clothing and wash it before reuse.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa liquid
Form: viscous
Colour: amber

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Odour:	characteristic, mild
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	207.8 °C
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	> 204 °C (PMCC)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	>49 °C: Reactions with water. >175 °C: Reactions with strong bases.
pH:	No data available
Water solubility:	reacts with water
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 25 °C: ≤ 0.00013 hPa
Density and/or relative density	1.23 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Additional information: No data available

10 Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Hygroscopic (Keep container tightly closed in a cool place.) Shelf life of this product is 6 months from date of manufacturing.
Possibility of hazardous reactions:	Danger of polymerization Contact with water liberates carbon dioxide. In case of warming: Danger of bursting container.
Conditions to avoid:	Protect from heat and direct sunlight. Avoid temperatures exceeding 65 °C. Do not re-seal contaminated containers as pressure buildup may rupture.
Incompatible materials:	Reacts with water, acids, bases, metals and surface active materials.
Hazardous decomposition products:	Isocyanates, nitrogen oxides (NO _x), hydrogen cyanide, carbon monoxide and carbon dioxide.

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11 Toxicological information

Information on the likely routes of exposure

In case of skin contact: May stain the skin.

Health hazard information

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Acute Toxicity 4 (inhalative) = Harmful if inhaled.

Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Respiratory Sensitizer 1 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Carcinogenicity 2 = Suspected of causing cancer.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) 2 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Acute toxicity: LC50 Rat, inhalative: 434 mg/m³/4h

Symptoms

Irritant. May cause damage to organs through prolonged or repeated exposure.

In case of inhalation:

Prolonged exposure to high concentrations may irritate respiratory system, cause headaches, dizziness and effects of the central nervous system. Pulmonary edema is possible. (It is possible that exposure to TDI-MDI may cause impairment of lung function.)

In case of ingestion: Irritant.

After contact with skin:

symptoms: redness, oedema (swelling), skin rash.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12 Ecological information

Ecotoxicity

Further details: No data available

Persistence and degradability

Further details: No data available

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Bioaccumulative potential

Partition coefficient — n-octanol/water:

No data available

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

13 Disposal considerations

Waste treatment methods

Product

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

Package

Recommendation: Dispose of waste according to applicable legislation.

14 Transport information

UN number

TDG, IMDG, IATA-DGR: not applicable

UN proper shipping name

TDG, IMDG, IATA-DGR: Not restricted

Transport hazard class

TDG, IMDG, IATA-DGR: not applicable

Packing group

TDG, IMDG, IATA-DGR: not applicable

Environmental hazards

Marine pollutant: no

Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

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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

4,4'-Methylenediphenyl diisocyanate: DSL: listed
CEPA Schedule 1: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: Contains 4,4'-Diphenylmethane diisocyanate
See information supplied by the manufacturer.

Revision date: 17/12/2025

Date of first version: 10/11/2001

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022
General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
AS/NZS: Australian Standards/New Zealand Standards
Carcinogenicity: Carcinogenicity
CAS: Chemical Abstracts Service
CEPA: Canadian Environmental Protection Act
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
DSL: Domestic Substances List
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
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
LC50: Median lethal concentration
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Respiratory Sensitizer: Sensitisation to the respiratory tract
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure
TDG: Transportation of Dangerous Goods Regulation in Canada



SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR) 2022

SL=P071-A - Footshell Foam Kit Part A

Material number SL=P071-A

Revision date: 17/12/2025
Version: 8.3
Replaces version: 8.2
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TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative

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.