

1 Identification

Product identifier

Trade name: 699P1 - lumeo casting sock

Recommended use and restrictions on use

General use: Intermediate 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

Email: 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 telephone number

COLLECT, Telephone: (613) 996-6666

2 Hazard identification

Classification

Skin Irritation 2	Causes skin irritation.
Eye Irritation 2A	Causes serious eye irritation.
Sensitization - skin 1	May cause an allergic skin reaction.
Aquatic toxicity - chronic 3	Harmful to aquatic life with long lasting effects.

Information elements

Symbols:



Signal word:

Warning

Hazard statements:

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

Precautionary statements:

Avoid breathing mist/vapours/spray.
Wash hands and face thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/soap.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see ' First aid ' on this label).

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container to hazardous or special waste collection point.

Other hazards known to the supplier with respect to the product

Special danger of slipping by leaking/spilling product.

3 Composition/Information on ingredients

Mixture

Chemical name: Fabric,
Consisting of: glass fibers and nylon
Impregnated with: resin (liquid, uncured)
Information about resin:
Acrylic acid, copolymer
Following information applies to the component: resin

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 868-77-9	2-Hydroxyethyl methacrylate	40 - 60 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1.
CAS 66492-51-1	(5-Ethyl-1,3-dioxan-5-yl) methyl acrylate	10 - < 25 %	Skin Irritation 2. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 162881-26-7	Phenyl bis(2,4,6-trimethylbenzoyl) -phosphine oxide	< 0.1 %	Sensitization - skin 1. Aquatic toxicity - chronic 4.

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

4 First-aid measures

Description of necessary first-aid measures

General information: If medical advice is needed, have product container or label at hand.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply cortisone spray at early stage. Seek medical attention if problems persist.

In case of swallowing:	Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
In case of skin contact:	Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
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 consult an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

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

Treat symptomatically.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, dry extinguishing powder, carbon dioxide

Unsuitable extinguishing media:

Full water jet

Specific hazards arising from the product

May form dangerous gases and vapours in case of fire. Furthermore, there may develop:
Carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water. Contaminated fire-fighting water must be collected separately.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.
Keep unprotected people away.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.
If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Thoroughly clean surrounding area.
Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear appropriate protective equipment.
Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers: Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in original container.
Protect from heat and direct sunlight. Store containers in upright position.
Storage temperature: 10 - 25 °C
Maximum storage period (time): 6 - 9 months

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.
Do not store together with: Mineral acids, bases, oxidizing agents, acid chlorides, radical formers.

8 Exposure controls/Personal protection

Control parameters

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Individual protection measures, such as personal protective equipment

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of inadequate ventilation wear respiratory protection.
Recommendation: Use combination filter type A-P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material:
Nitrile rubber - Layer thickness: ≥ 0.4 mm
Chloroprene rubber - Layer thickness: ≥ 0.5 mm
Butyl caoutchouc (butyl rubber) - Layer thickness: ≥ 0.7 mm
Breakthrough time: > 30 min
Glove material:
Fluoro rubber - Layer thickness: ≥ 0.4 mm
Breakthrough time: > 480 min
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. Also use face protection if there is a risk of splashes.

Body protection: Wear suitable protective clothing.

General hygiene considerations:
 Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product.
 Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

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: Paste

Colour: Light blue, blue

Odour: Weak

Odour threshold: No data available

Melting point and freezing point: Not determined

Boiling point or initial boiling point and boiling range:
 > 200 °C

Flammability: This material is combustible, but will not ignite readily.

Lower and upper explosion limit or lower and upper flammability limit:
 LEL (Lower Explosion Limit): Not determined
 UEL (Upper Explosive Limit): Not determined

Flash point/flash point range: 101 °C

Evaporation rate: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

pH: No data available

Dynamic viscosity: at 20 °C: 500,000 mPa*s

Solubility: No data available

Partition coefficient — n-octanol/water: 0.47 log K(o/w) (2-Hydroxyethyl methacrylate)
 Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
 1.9 log K(o/w) ((5-Ethyl-1,3-dioxan-5-yl)methyl acrylate)
 Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

Vapour pressure: at 20 °C: 1.3 hPa

Density and/or relative density 1.1 g/cm³

Vapour density: No data available

Particle characteristics: Not applicable

Additional information

Ignition temperature: Not determined

Solid content: 30 - 60 %

10 Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Exothermic polymerization may occur.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from direct sunlight.
Incompatible materials:	Mineral acids, bases, oxidizing agents, acid chlorides, radical former
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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: Lack of data.

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

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about 2-Hydroxyethyl methacrylate (CAS 868-77-9):
LD50 Rat, oral: 5,050 mg/kg

Symptoms

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

12 Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
 Information about 2-Hydroxyethyl methacrylate (CAS 868-77-9):
 Fish toxicity:
 LC50 Pimephales promelas (fathead minnow): 227 mg/L/96h
 Information about (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate:
 Fish toxicity:
 LC50 Oncorhynchus mykiss: 4 mg/L/96h
 Daphnia toxicity:
 EC50 Daphnia magna (Big water flea): 20 mg/L/48h

Persistence and degradability

Further details: Product is not readily biodegradable.
 Information about (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate:
 Formation of carbon dioxide: 28%/28d (OECD 301 B)

Bioaccumulative potential

Partition coefficient — n-octanol/water:
 0.47 log K(o/w) (2-Hydroxyethyl methacrylate)
 Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
 1.9 log K(o/w) ((5-Ethyl-1,3-dioxan-5-yl)methyl acrylate)
 Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter drains.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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

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

2-Hydroxyethyl methacrylate: DSL: listed

(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate: DSL: listed

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: Contains:
2-Hydroxyethyl methacrylate
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Revision date: 17/12/2025

Date of first version: 22/5/2025

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

Classification procedure: Physical hazards: on basis of test data
Health hazards, environmental hazards: calculation method

Abbreviations and acronyms:

Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
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
DSL: Domestic Substances List
EC: European Community
EC50: Effective Concentration 50%
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
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
TDG: Transportation of Dangerous Goods Regulation in Canada
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

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.