

1 Identification

Product identifier

Trade name: 635L22 - Scanning Spray

Recommended use and restrictions on use

General use: Coatings
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

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2 Hazard identification

Classification

Aerosol 1 Extremely flammable aerosol. Pressurised container: May burst if heated.

Aquatic toxicity - chronic 3 Harmful to aquatic life with long lasting effects.

Information elements

Symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Harmful to aquatic life with long lasting effects.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Avoid release to the environment.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

Other hazards known to the supplier with respect to the product

Potentially explosive mixtures may form if adequate ventilation is not provided.

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Higher doses may lead to a narcotic effect.

3 Composition/Information on ingredients**Mixture**

Chemical name:

Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 287-92-3	Cyclopentane	25 - 50 %	Flammable Liquid 2. Aquatic toxicity - chronic 3.
CAS 64-17-5	Ethanol	10 - 25 %	Flammable Liquid 2. Eye Irritation 2A.
CAS 281-23-2	Tricyclo[3.3.1.1 ^{3,7}]decane	< 10 %	Aquatic toxicity - acute 1.
CAS 64742-49-0	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	< 5 %	Flammable Liquid 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	< 5 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	< 5 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	< 5 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 110-54-3	n-Hexane	< 1 %	Flammable Liquid 2. Skin Irritation 2. Reproductive toxicity 2. Specific Target Organ Toxicity (Single Exposure) 3. Specific Target Organ Toxicity (Repeated Exposure) 1. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 74-98-6	Propane	25 - 50 %	Flammable Gas 1. Compressed Gas.

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

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.
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Make sure he/she is warm and comfortable. Seek medical treatment in case of troubles. If victim is at risk of losing consciousness, position and transport on their side.
In case of swallowing:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. In case of vomiting, lay at least head on side. Seek medical attention.
In case of skin contact:	Immediately clean with water and soap followed by thorough rinsing. 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 seek the immediate attention of an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

Repeated exposure may cause skin dryness or cracking. Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.

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, extinguishing powder

Unsuitable extinguishing media:

full water jet

Specific hazards arising from the product

Extremely flammable aerosol. Pressurised container: May burst if heated. On heating or in case of fire toxic gases may form.

Furthermore, there may develop: carbon monoxide and carbon dioxide. Potentially explosive vapour/air mixtures may form.

Special protective equipment and precautions for fire-fighters

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

Additional information:

Heating will lead to pressure increase: danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Eliminate all ignition sources if safe to do so.

Do not breathe mist/vapours/spray. Avoid contact with the substance.

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.

In case of release, notify competent authorities. Danger of explosion!

Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Beware of reignition. Thoroughly clean surrounding area. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Never return spills in original containers for re-use.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.
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. Do not breathe mist/vapours/spray. Wear appropriate protective equipment.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. 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.
Do not breathe mist/vapours/spray. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

Precautions against fire and explosion: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Take precautionary measures against static discharges. Use only explosion-protected equipment/instruments. Do not weld. In partially filled containers explosive mixtures may form. vapours may form explosive mixtures with air.

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 the original container.
Protect from heat and direct sunlight. Keep at temperature not exceeding 50 °C.
Store containers in upright position. Explosion protection required. Store locked up.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
287-92-3	Cyclopentane	Canada: Alberta, OEL 8 hour	1,720 mg/m ³ ; 600 ppm
		Canada: BC, OEL TWA	600 ppm
		Canada: Québec, VEMP	1,720 mg/m ³ ; 600 ppm
64-17-5	Ethanol	Canada: Alberta, OEL 8 hour	1,880 mg/m ³ ; 1,000 ppm
		Canada: BC, OEL STEL	1,000 ppm
		Canada: Québec, VECD	1,000 ppm
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Canada: BC, OEL TWA	100 ppm
110-54-3	n-Hexane	Canada: Alberta, OEL 8 hour	176 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Canada: BC, OEL TWA	20 ppm (may be absorbed through the skin)
		Canada: Québec, VEMP	176 mg/m ³ ; 50 ppm (may be absorbed through the skin)
74-98-6	Propane	Canada: Alberta, OEL 8 hour	1,000 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
110-54-3	n-Hexane	USA: ACGIH-BEI, urine	0.5 mg/L	2,5-Hexanedion	end of exposure or end of shift

Appropriate engineering controls

Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

Individual protection measures, such as personal protective equipment

Respiratory protection:	In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. 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. 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.
Body protection:	Wear suitable protective clothing.

General hygiene considerations:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use only non-sparking tools.
Do not breathe mist/vapours/spray. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Protect skin by using skin protective cream. Wash hands thoroughly after handling.
Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

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
Colour:	Form: Aerosol varying
Odour:	characteristic
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	-161.5 °C
Flammability:	Extremely flammable aerosol.
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit): 0.60 Vol-% UEL (Upper Explosive Limit): 15.00 Vol-%
Flash point/flash point range:	<= -29 °C
Evaporation rate:	No data available
Auto-ignition temperature:	264 °C
Decomposition temperature:	No data available
pH:	No data available
Solubility:	No data available
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 20 °C: 25 kPa
Density and/or relative density	No data available
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties:	Product is not explosive. Potentially explosive vapour/air mixtures may form.
Oxidizing characteristics:	not oxidising
Solvent content:	58.29 %
Solid content:	9.072 %
Additional information:	Propellant content: 32.64 %

10 Stability and reactivity

Reactivity:	Extremely flammable aerosol. vapours may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Pressurised container: May burst if heated.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. avoid Shock.
Incompatible materials:	Oxidising agent
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: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

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.

12 Ecological information

Ecotoxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Information about Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Fish toxicity:

LL50 Oncorhynchus mykiss: 12 mg/L/96h (OECD 203)

NOELR Oncorhynchus mykiss: 2.187 mg/L/28d (QSAR)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 3 mg/L/48h (OECD 202)

NOELR Daphnia magna (Big water flea): 3.818 mg/L/21d (QSAR)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae), growth rate: 55 mg/L/72h (OECD 201)

NOELR Pseudokirchneriella subcapitata (green algae), growth rate: 1.628 mg/L/72h (QSAR)

Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Fish toxicity:

LL50 Oncorhynchus mykiss: > 11.4 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 17.06 mg/L/48h (QSAR)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): 10 - 30 mg/L/72h (OECD 201)

Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:

Fish toxicity: LL50 Oncorhynchus mykiss: 18.27 mg/L/96h (OECD 203)

NOELR Oncorhynchus mykiss: 4.089 mg/L/28d (QSAR)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 31.9 mg/L/48h (OECD 202)

NOELR Daphnia magna (Big water flea): 7.1381 mg/L/21d (QSAR)

Algae toxicity: EC50 Pseudokirchneriella subcapitata (green algae), biomass: 2.6 mg/L/72h (OECD 201)

EC50 Pseudokirchneriella subcapitata (green algae), growth rate: 55 mg/L/72h (OECD 201)

NOEL Pseudokirchneriella subcapitata (green algae), growth rate: 30 mg/L/72h (OECD 201)

Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Fish toxicity: LL50 Oncorhynchus mykiss: > 13.4 mg/L/96h (OECD 203)

NOELR Oncorhynchus mykiss: 1.534 mg/L/28d (QSAR)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 3 mg/L/48h (OECD 202)

NOELR Daphnia magna (Big water flea): 1 mg/L/21d (OECD 211)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): 10 - 30 mg/L/72h (OECD 201)

NOELR Pseudokirchneriella subcapitata (green algae), growth rate: approx. 10 mg/L/72h (OECD 201)

Persistence and degradability

Further details: Biodegradability:
Ethanol: 74 %/5 d
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane: 83 %/10 d
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane: 83 %/10 d
Hydrocarbons, C6, isoalkanes, < 5% n-hexane: 83 %/10 d

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 enter into ground-water, surface water or drains.

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Do not pierce or burn, even after use.
Special waste. Dispose of waste according to applicable legislation.
Do not dispose of with household waste. Do not empty into drains.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care.
Incineration may cause explosion. Empty carefully and completely, if possible.
Non-contaminated packages must be recycled or disposed of.

14 Transport information

UN number

TDG: UN1950
IMDG, IATA-DGR: UN 1950

UN proper shipping name

TDG, IMDG: UN 1950, AEROSOLS
IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

Transport hazard class

TDG: 2.1
IMDG: Class 2.1, Subrisk -
IATA-DGR: Class 2.1



Packing group

TDG, IATA-DGR: not applicable
IMDG: -

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)

Special Provisions: 80, 107
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 75 L

Sea transport (IMDG)

EmS: F-D, S-U
Special Provisions: 63 190 277 327 344 381 959
Limited quantities: 1000 mL
Excepted quantities: E0
Package - Instructions: P207, LP200
Package - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: no
Segregation group: none

Air transport (IATA)

Proper shipping name: UN 1950, AEROSOLS, FLAMMABLE
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L

15 Regulatory information

National regulations - Canada

Cyclopentane:	DSL: listed
Ethanol:	DSL: listed
Tricyclo[3.3.1.1 ^{3,7}]decane:	NDSL: listed
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:	DSL: listed
n-Hexane:	DSL: listed
Propane:	DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Revision date: 17/12/2025

Date of first version: 27/8/2020

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

Abbreviations and acronyms:

Aerosol: Aerosol
Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Aspiration Toxicity: Aspiration toxicity
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%
EL50: Effective loading rate 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
Flammable Gas: Flammable gases
Flammable Liquid: Flammable liquid
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
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NDSL: Non-Domestic Substances List
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
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
Reproductive toxicity: Reproductive toxicity
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure
SVHC: Substance of very high concern
TDG: Transportation of Dangerous Goods Regulation in Canada
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
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.