

## 1 Identification

### Product identifier

Trade name: 635L2 - Special Lacquer, colorless

### Recommended use and restrictions on use

General use: Varnish for orthopedic procedures.  
Reserved for industrial and professional use.

### 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](http://www.ottobock.ca)

Email: [info.canada@ottobock.com](mailto: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

Flammable Liquid 2

Highly flammable liquid and vapour.

Skin Irritation 2

Causes skin irritation.

Eye Irritation 2A

Causes serious eye irritation.

Reproductive toxicity 2

Suspected of damaging the unborn child.

Specific Target Organ Toxicity (Single Exposure) 3

May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure) 2

May cause damage to organs through prolonged or repeated exposure.

Aquatic toxicity - chronic 3

Harmful to aquatic life with long lasting effects.

## Information elements

Symbols:



Signal word:

**Danger**

Hazard statements:

Highly flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Suspected of damaging the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

Precautionary statements:

Obtain special instructions before use.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not breathe mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a POISON CENTER/doctor if you feel unwell.  
  
Store in a well-ventilated place. Keep container tightly closed.

## 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.  
Special danger of slipping by leaking/spilling product.

### 3 Composition/Information on ingredients

#### Mixture

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 123-86-4	n-Butyl acetate	25 - 50 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 141-78-6	Ethyl acetate	10 - 25 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 9004-70-0	Nitrocellulose <12,6% N	10 - 25 %	Flammable Solid 1.
CAS 108-88-3	Toluene	10 - 25 %	Flammable Liquid 2. Skin Irritation 2. Eye Irritation 2A. Reproductive toxicity 2. Specific Target Organ Toxicity (Single Exposure) 3. Specific Target Organ Toxicity (Repeated Exposure) 2. Aspiration Toxicity 1. Aquatic toxicity - chronic 3.
CAS 67-64-1	Acetone	5 - 10 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 67-63-0	Isopropyl alcohol	5 - 10 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 107-98-2	1-Methoxy-2-propanol	5 - 10 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	0.5 - 2.5 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.

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

### 4 First-aid measures

#### Description of necessary first-aid measures

General information:	Obtain special instructions before use. If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Do not allow victim to become chilled. Keep victim warm. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention. If victim is at risk of losing consciousness, position and transport on their side.
In case of swallowing:	Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Consult physician immediately. Never give anything by mouth to an unconscious person.

In case of skin contact: Thoroughly wash skin with soap and water. Do not use solvents or thinners. Take off immediately all 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 serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

### 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, carbon dioxide.  
In case of large fires: water spray jet or alcohol resistant foam.

Unsuitable extinguishing media:

Full water jet

### Specific hazards arising from the product

Highly flammable liquid and vapour. Air combined with vapours may form potentially explosive mixtures that are heavier than air.  
vapours may proceed on the ground over great distances and cause fire and backflashes.  
Exposure to fire produces thick, black smoke that is hazardous to health.  
In case of fire may be liberated: Nitrogen oxides, smoke, carbon dioxide, carbon monoxide.

### Special protective equipment and precautions for fire-fighters

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

Additional information:

Do not allow fire water to penetrate into surface or ground water. Heating will lead to pressure increase: danger of bursting and explosion. Use fine water spray to cool endangered containers.  
Keep containers cool with water spray.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
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

Remove all sources of ignition. Keep unprotected people away. Wear appropriate protective equipment. Do not breathe mist/vapours/spray. Provide adequate ventilation. Avoid contact with the substance.  
Take off immediately all contaminated clothing and wash it before reuse.  
Cordon off downwind area at risk and warn inhabitants. Avoid exposure.

### Environmental precautions:

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits. If necessary, notify appropriate authorities.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

### 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: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed.

Avoid contact with skin and eyes. When using do not eat or drink.

Do not breathe mist/vapours/spray. Wash hands thoroughly after handling.

Take off immediately all contaminated clothing and wash it before reuse.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Work place should be equipped with a shower and an eye rinsing apparatus.

### Precautions against fire and explosion:

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

Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting equipment. Do not weld.

In partially filled containers explosive mixtures may form.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry. Protect from heat and direct sunlight.

#### Hints on joint storage:

Keep away from strong acids and bases as well as oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

#### Further details:

Store containers carefully closed and upright to prevent any leaks.

Only trained personnel may be allowed to enter storage area.

## 8 Exposure controls/Personal protection

### Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
123-86-4	n-Butyl acetate	Canada: Alberta, OEL 15 min	950 mg/m <sup>3</sup> ; 200 ppm
		Canada: Alberta, OEL 8 hour	713 mg/m <sup>3</sup> ; 150 ppm
		Canada: BC, OEL STEL	150 ppm
		Canada: BC, OEL TWA	50 ppm
		Canada: Québec, VECD	150 ppm
		Canada: Québec, VEMP	50 ppm
141-78-6	Ethyl acetate	Canada: Alberta, OEL 8 hour	1,440 mg/m <sup>3</sup> ; 400 ppm
		Canada: BC, OEL TWA	150 ppm
		Canada: Québec, VEMP	1,440 mg/m <sup>3</sup> ; 400 ppm
108-88-3	Toluene	Canada: Alberta, OEL 8 hour	188 mg/m <sup>3</sup> ; 50 ppm (may be absorbed through the skin)
		Canada: BC, OEL TWA	20 ppm
		Canada: Québec, VEMP	20 ppm
67-64-1	Acetone	Canada: Alberta, OEL 15 min	1,800 mg/m <sup>3</sup> ; 750 ppm
		Canada: Alberta, OEL 8 hour	1,200 mg/m <sup>3</sup> ; 500 ppm
		Canada: BC, OEL STEL	500 ppm
		Canada: BC, OEL TWA	250 ppm
		Canada: Québec, VECD	500 ppm
		Canada: Québec, VEMP	250 ppm
67-63-0	Isopropyl alcohol	Canada: Alberta, OEL 15 min	984 mg/m <sup>3</sup> ; 400 ppm
		Canada: Alberta, OEL 8 hour	492 mg/m <sup>3</sup> ; 200 ppm
		Canada: BC, OEL STEL	400 ppm
		Canada: BC, OEL TWA	200 ppm
		Canada: Québec, VECD	400 ppm
		Canada: Québec, VEMP	200 ppm
107-98-2	1-Methoxy-2-propanol	Canada: Alberta, OEL 15 min	553 mg/m <sup>3</sup> ; 150 ppm
		Canada: Alberta, OEL 8 hour	369 mg/m <sup>3</sup> ; 100 ppm
		Canada: BC, OEL STEL	100 ppm
		Canada: BC, OEL TWA	50 ppm
		Canada: Québec, VECD	100 mg/m <sup>3</sup>
		Canada: Québec, VEMP	50 mg/m <sup>3</sup>
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Canada: BC, OEL TWA	100 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
108-88-3	Toluene	USA: ACGIH-BEI, blood	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
		USA: ACGIH-BEI, urine	0.03 mg/L	Toluene in urine	end of exposure or end of shift
		USA: ACGIH-BEI, urine	0.3 mg/g creatinine	o-Cresol in urine	end of exposure or end of shift
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift
67-63-0	Isopropyl alcohol	USA: ACGIH-BEI, urine	40 mg/L	Acetone in urine	end of shift at end of work week

### Appropriate engineering controls

Use only explosion-protected equipment/instruments. Explosion protection required.

### Individual protection measures, such as personal protective equipment

Respiratory protection:	For short or minimal exposure: respiratory filter; in cases of longer exposure: supplied air respirator. 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: Fluororubber (Viton) Unsuitable materials: Leather gloves/Protective gloves made of fabric. Breakthrough time: > 15 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.
Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.
General hygiene considerations:	Obtain special instructions before use. Keep away from sources of ignition - No smoking. When using do not eat or drink. Wash hands before breaks and after work. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes. Do not breathe mist/vapours/spray. Work place should be equipped with a shower and an eye rinsing apparatus.

### Environmental exposure controls

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

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	colourless

Odour:	type specific
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	55.8 - 56.6 °C
Flammability:	Highly flammable liquid and vapour.
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit): 1.20 Vol-% UEL (Upper Explosive Limit): 11.50 Vol-%
Flash point/flash point range:	-18 °C
Evaporation rate:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
pH:	No data available
Kinematic viscosity:	at 20 °C: 50 s (ISO 2431, 4mm)
Water solubility:	slightly miscible up to immiscible
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 20 °C: 97 hPa
Density and/or relative density	at 20 °C: 0.94 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

### Additional information

Explosive properties:	Product is not explosive. vapours may form explosive mixtures with air.
Ignition temperature:	270 °C
Solvent content:	75.5 %
Water content:	0.4 %

## 10 Stability and reactivity

Reactivity:	Highly flammable liquid and vapour. vapours may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Heating will lead to pressure increase: danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight.
Incompatible materials:	Strong acid or bases as well as oxidizing agents.
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: 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: Reproductive toxicity 2 = Suspected of damaging the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.

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

#### Other information:

Information about Toluene:

LD50 Rat, oral: > 5,000 mg/kg

LD50 Rabbit, dermal: > 5,000 mg/kg

LC50 Rat, inhalative: > 20 mg/L/4h

IARC - Classification code: group 3

OSHA - Carcinogenic: not listed ingredient

NTP - classification: not listed ingredient

Information about Isopropyl alcohol:

IARC - Classification code: group 3

OSHA - Carcinogenic: not listed ingredient

NTP - classification: not listed ingredient

### Symptoms

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

Higher doses may lead to a narcotic effect.

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 Naphtha (petroleum), hydrotreated light:  
 Fish toxicity:  
 LC50 Oncorhynchus mykiss: 8,41 mg/L/96h (OECD 203).  
 Daphnia toxicity:  
 EC50 Daphnia magna (Big water flea): 4,7 mg/L/48h (OECD 202).  
 Algae toxicity:  
 EC50 Pseudokirchneriella subcapitata (green algae): 12,4 mg/L/72h (OECD 201).

### Persistence and degradability

Further details: No data available

### 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.  
 Avoid spills and leaks. Very small amounts contaminates drinking water.

## 13 Disposal considerations

### Waste treatment methods

#### Product

Recommendation: 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 contaminated packages in the same way as the substance itself.  
 Non-contaminated packages may be recycled.  
 Handle empty containers with care. Incineration may cause explosion.

## 14 Transport information

### UN number

TDG: UN1263  
 IMDG, IATA-DGR: UN 1263

### UN proper shipping name

TDG: UN 1263, Paint  
IMDG, IATA-DGR: UN 1263, PAINT

### Transport hazard class

TDG: 3  
IMDG: Class 3, Subrisk -  
IATA-DGR: Class 3



### Packing group

TDG, IMDG, IATA-DGR: II

### 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: 59, 142  
Explosive limit and limited quantity index: 5L  
Passenger carrying road or rail index: 5L

#### Sea transport (IMDG)

EmS: F-E, S-E  
Special Provisions: 163 367  
Limited quantities: 5 L  
Excepted quantities: E2  
Package - Instructions: P001  
Package - Provisions: PP1  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1, TP8, TP28  
Stowage and handling: Category B.  
Properties and observations: Miscibility with water depends upon the composition.  
Marine pollutant: no  
Segregation group: none  
Remarks: UN1263, PAINT

#### Air transport (IATA)

Proper shipping name: UN 1263, PAINT  
Hazard label: Flamm. liquid  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special Provisions: A3 A72 A192  
Emergency Response Guide-Code (ERG): 3L  
Remarks: UN1263, PAINT

### 15 Regulatory information

#### National regulations - Canada

n-Butyl acetate:	DSL: listed
Ethyl acetate:	DSL: listed
Nitrocellulose <12,6% N:	DSL: listed
Toluene:	DSL: listed
	Priority Substances List: listed (PSL 1)
Acetone:	DSL: listed
Isopropyl alcohol:	DSL: listed
1-Methoxy-2-propanol:	DSL: listed
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:	DSL: listed

#### Further regulations, limitations and legal requirements

No data available

### 16 Other information

Text for labelling:	Contains Toluene, n-Butyl acetate and Ethyl acetate.
Revision date:	17/12/2025
Date of first version:	13/11/1995
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:

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%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
Eye Irritation: Eye irritation  
Flammable Liquid: Flammable liquid  
Flammable Solid: Flammable solid  
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  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
PSL: Priority Substances List  
Reproductive toxicity: Reproductive toxicity  
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  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
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.