

## 1 Identification

### Product identifier

Trade name: 636K12 - Loctite 245

### Recommended use and restrictions on use

General use: Anaerobic adhesive, Screw Locking Agent, 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

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

Eye Irritation 2A

Specific Target Organ Toxicity (Repeated Exposure) 2

Aquatic toxicity - chronic 3

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

### Information elements

Symbols:



Signal word:

**Warning**

Hazard statements:

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

### Precautionary statements:

Do not breathe mist/vapours/spray.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get medical advice/attention if you feel unwell.  
If eye irritation persists: Get medical advice/attention.

### Other hazards known to the supplier with respect to the product

## 3 Composition/Information on ingredients

### Mixture

Chemical name: Anaerobic sealants and adhesives

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 80-15-9	Cumene hydroperoxide	< 3 %	Organic Peroxide E. Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Acute Toxicity 3 (inhalative). Skin Corrosion 1B. Specific Target Organ Toxicity (Repeated Exposure) 2. Aquatic toxicity - chronic 2.
CAS 613-48-9	N,N-diethyl-p-toluidine	< 1 %	Acute Toxicity 3 (oral). Acute Toxicity 3 (dermal). Acute Toxicity 3 (inhalative). Specific Target Organ Toxicity (Repeated Exposure) 2. Aquatic toxicity - chronic 3.
CAS 609-72-3	N,N-Dimethyl-o-toluidine	< 1 %	Acute Toxicity 3 (oral). Acute Toxicity 3 (dermal). Acute Toxicity 3 (inhalative). Specific Target Organ Toxicity (Repeated Exposure) 2. Aquatic toxicity - chronic 3.

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

Additional information: Contains Silicon dioxide: The maximum workplace exposure limits are, where necessary, listed in section 8.

## 4 First-aid measures

### Description of necessary first-aid measures

General information: If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse. First aider: Pay attention to self-protection!

In case of inhalation: Move victim to fresh air. Seek medical attention if problems persist.

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. Consult physician.

In case of skin contact: After contact with skin, wash immediately with soap and plenty of water.  
Seek medical attention if problems persist.

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. Conjunctivitis.  
Lengthy or repeated contact may cause skin 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:

Extinguishing powder, foam, carbon dioxide

Unsuitable extinguishing media:

full water jet

### Specific hazards arising from the product

Emits toxic fumes under fire conditions.  
In case of fire may be liberated: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

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

Wear a self-contained breathing apparatus and chemical protective clothing.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.  
Avoid contact with skin and eyes. Avoid breathing mist/vapours/spray. 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.

### Methods and material for containment and cleaning up

smaller amounts:  
Collect spilled material using paper towels and dispose.  
Large amounts:  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Special waste. Final cleaning: Remove residues with soap and water.

## 7 Handling and storage

### Precautions for safe handling

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

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep only in the original container.  
Do not return unused portions of product to original container.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

## 8 Exposure controls/Personal protection

### Control parameters

### Appropriate engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

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

Respiratory protection: Use only in well-ventilated areas.  
Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Nitrile 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.

Body protection: Wear suitable protective clothing.

General hygiene considerations:

Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Avoid breathing mist/vapours/spray.  
Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. 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  
Colour: blue  
clear

Odour:	characteristic
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	> 200 °C
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	> 100 °C
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	3 - 6
Solubility:	in acetone miscible.
Water solubility:	immiscible
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 25 °C: ≤ 0.1 hPa
Density and/or relative density	at 20 °C: 1.08 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

### Additional information

Additional information:	No data available
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## 10 Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	No data available
Incompatible materials:	No data available
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): Lack of data.

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

Aspiration hazard: Lack of data.

Other information:

Information about cumene hydroperoxide:

LD50 Rat, oral: 382 mg/kg

LD50 Rat, dermal: 530 - 1,060 mg/kg

ATE, dermal: 1,100 mg/kg (Data obtained by expert judgement.)

### Symptoms

May cause respiratory irritation. Cough, shortage of breath.

In case of inhalation: May cause irritations. Cough, shortage of breath

In case of ingestion: May cause irritations.

The following symptoms may occur: Gastric and intestinal problems.

After contact with skin: Lengthy or repeated contact may cause skin irritation.

After eye contact:

Upon direct contact with eyes may cause burning, tearing, redness. Conjunctivitis

## 12 Ecological information

### Ecotoxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Information about cumene hydroperoxide: Fish toxicity:

LC50 Oncorhynchus mykiss: 3.9 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 18 mg/L/48h (OECD 202)

Algae toxicity:

EC50 Pseudokirchneriella subcapitata (green algae), growth rate: 3.1 mg/L/72h

### 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.

## 13 Disposal considerations

### Waste treatment methods

#### Product

Recommendation: Special waste. Dispose of waste according to applicable legislation.

#### Package

Recommendation: Waste key number:  
150104 metallic packaging.  
150102 Plastic packaging.  
Dispose of waste according to applicable legislation.  
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

Cumene hydroperoxide: DSL: listed

N,N-diethyl-p-toluidine: DSL: listed

N,N-Dimethyl-o-toluidine: DSL: listed

Silicon dioxide: DSL: listed

#### Further regulations, limitations and legal requirements

No data available

## 16 Other information

Text for labelling: Contains cumene hydroperoxide

Revision date: 17/12/2025

Date of first version: 25/5/2003

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

### Abbreviations and acronyms:

Acute Toxicity: Acute toxicity  
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
ATE: Acute toxicity estimate  
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 Damage: Eye damage  
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%  
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  
Organic Peroxide: Organic peroxide  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
Skin Corrosion: Skin corrosion  
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  
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.