

## 1 Identification

### Product identifier

Trade name: 640F12 - Special Cleaner

### Recommended use and restrictions on use

General use: Cleaning agent

### 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

## 2 Hazard identification

### Classification

Flammable Liquid 3	Flammable liquid and vapour.
Skin Irritation 2	Causes skin irritation.
Eye Damage 1	Causes serious eye damage.
Reproductive toxicity 2	Suspected of damaging fertility or the unborn child.
Aquatic toxicity - acute 3	Harmful to aquatic life.

### Information elements

Symbols:



Signal word:

**Danger**

Hazard statements:

Flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye damage.  
Suspected of damaging fertility or the unborn child.  
Harmful to aquatic life.

### Precautionary statements:

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.

Obtain special instructions before use.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash hands and face thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves and eye protection.

IF ON SKIN: Wash with plenty of water/soap.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see 'First aid' on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use dry powder, foam or water spray for extinction.

Store in a well-ventilated place. Keep cool.  
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

Special danger of slipping by leaking/spilling product.

## 3 Composition/Information on ingredients

### Mixture

Chemical name: Emulsion in water

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 34590-94-8	(2-Methoxymethylethoxy) propanol	5 - 10 %	Flammable Liquid 4.
CAS 107-98-2	1-Methoxy-2-propanol	1 - 5 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 64-17-5	Ethanol	1 - 5 %	Flammable Liquid 2. Eye Irritation 2A.
CAS 1569-01-3	1-Propoxypropan-2-ol	1 - 5 %	Flammable Liquid 3. Eye Irritation 2A.
CAS 112-34-5	2-(2-Butoxyethoxy) ethanol	1 - 5 %	Eye Irritation 2A.
CAS 121617-08-1	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	1 - 5 %	Skin Corrosion 1C. Eye Damage 1. Aquatic toxicity - acute 2. Aquatic toxicity - chronic 3.
CAS 7397-62-8	Butyl glycolate	1 - 3 %	Flammable Liquid 4. Eye Damage 1. Reproductive toxicity 2. Aquatic toxicity - acute 3.
CAS 9002-92-0	Dodecan-1-ol, ethoxylated	0.1 - 1 %	Acute Toxicity 4 (oral). Eye Damage 1. Aquatic toxicity - acute 1. Aquatic toxicity - chronic 3.

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. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Provide fresh air. Seek medical treatment in case of troubles.
In case of swallowing:	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
In case of skin contact:	Thoroughly wash skin with soap and water. 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. Seek the attention of an ophthalmologist immediately.

### Most important symptoms and effects, whether acute or delayed

Causes skin irritation.  
Causes serious eye damage.

### 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, foam, carbon dioxide

Unsuitable extinguishing media:

Full water jet

### Specific hazards arising from the product

On heating or in case of fire toxic gases may form.

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), sulphur oxides, 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. Use fine water spray to cool endangered containers. 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 exposure. Avoid breathing mist/vapours/spray. Avoid contact with the substance. 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

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

Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. 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. 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. When handling larger quantities, take precautionary measures against electrostatic charging.

### 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. Protect from frost. Store containers in upright position.

#### Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Keep away from strong acids.

## 8 Exposure controls/Personal protection

### Control parameters

#### Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
34590-94-8	(2-Methoxymethylethoxy)propanol	Canada: Alberta, OEL 15 min	909 mg/m <sup>3</sup> ; 150 ppm (may be absorbed through the skin)
		Canada: Alberta, OEL 8 hour	606 mg/m <sup>3</sup> ; 100 ppm (may be absorbed through the skin)
		Canada: BC, OEL TWA	50 ppm
		Canada: Québec, VECD	909 mg/m <sup>3</sup> ; 150 ppm (may be absorbed through the skin)
		Canada: Québec, VEMP	606 mg/m <sup>3</sup> ; 100 ppm (may be absorbed through the skin)
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>
64-17-5	Ethanol	Canada: Québec, VEMP	50 mg/m <sup>3</sup>
		Canada: Alberta, OEL 8 hour	1,880 mg/m <sup>3</sup> ; 1,000 ppm
		Canada: BC, OEL STEL	1,000 ppm
		Canada: Québec, VECD	1,000 ppm

### 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:

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 ABEK-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: Butyl caoutchouc (butyl rubber) - Layer thickness: $\geq 0.7$ 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:	In case of handling larger quantities: Wear suitable protective clothing.
General hygiene considerations:	Obtain special instructions before use. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. 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. 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:	colourless clear
Odour:	Essential
Odour threshold:	No data available
Melting point and freezing point:	$< 0$ °C
Boiling point or initial boiling point and boiling range:	85 - 100 °C
Flammability:	Flammable liquid and vapour. Not sustaining combustion.
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit): 3.50 Vol-% UEL (Upper Explosive Limit): 15.00 Vol-%
Flash point/flash point range:	50 - 60 °C (c.c.)
Evaporation rate:	No data available
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available
pH:	at 20 °C: 7.9 - 9.9
Kinematic viscosity:	at 40 °C: 1 - 10 mm <sup>2</sup> /s
Water solubility:	at 20 °C: Miscible
Partition coefficient — n-octanol/water:	at 23 °C: 1.5 log K(o/w) (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. at 25 °C: 0.38 log K(o/w) (Butyl glycolate) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

Vapour pressure: at 20 °C: 23 hPa (water)  
at 50 °C: 123 hPa (water)  
Density and/or relative density: at 20 °C: 0.98 - 1.01 g/mL  
Vapour density: at 20 °C: < 1  
Particle characteristics: Not applicable

### Additional information

Ignition temperature: 252 °C

## 10 Stability and reactivity

Reactivity: Flammable liquid and vapour. Not sustaining combustion.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:  
No hazardous reaction when handled and stored according to provisions.

Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. When handling larger quantities, take precautionary measures against electrostatic charging.

Incompatible materials: Strong acids

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.

ATEmix (calculated) > 5,000 mg/kg

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

ATEmix (calculated) > 5,000 mg/kg

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 Damage 1 = Causes serious eye damage.

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: Reproductive toxicity 2 = Suspected of damaging fertility or the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

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

#### Other information:

Information about 1-Methoxy-2-propanol (CAS 107-98-2):

LD50 Rat, oral: 4,016 mg/kg (EU B.2)

LD50 Rat, dermal: > 2,000 mg/kg (EU B.3), no mortality occurred

LC50 Rat, inhalative (vapour): > 22.48 mg/L/6h (OECD 403), no mortality occurred

Information about 1-Propoxypropan-2-ol (CAS 1569-01-3):

LD50 Rat, oral: 2,490 mg/kg (OECD 401)

LD50 Rabbit, dermal: 3,775 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour): > 8.34 mg/L/4h (OECD 403), maximum achievable concentration, no mortality occurred

Information about 2-(2-Butoxyethoxy)ethanol (CAS 112-34-5):

LD50 Mouse, oral: 2,410 mg/kg (OECD 401)

LD50 Rabbit, dermal: 2,764 mg/kg (OECD 402)

Information about Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine (comparable to CAS 121617-08-1):

LD50 Rat, oral: 2,925 mg/kg (OECD 401)

LD50 Rat, dermal: > 2,000 mg/kg (OECD 402), no mortality occurred

Information about Butyl glycolate (CAS 7397-62-8):

LD50 Rat, oral: 4,595 mg/kg (OECD 401)

LC50 Rat, inhalative (dust/mist): > 8.34 mg/L/4h, no mortality occurred

### Symptoms

After eye contact:

Upon direct contact with eyes may cause burning, tearing, redness. Prolonged eye contact may damage the cornea.

## 12 Ecological information

### Ecotoxicity

Aquatic toxicity:	<p>Harmful to aquatic life.</p> <p>Information about Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine (comparable to CAS 121617-08-1):</p> <p>Fish toxicity:</p> <p>LC50 Lepomis macrochirus: 1.67 mg/L/96h (EPA OPPTS 850.1075)</p> <p>NOEC Lepomis macrochirus: 1 mg/L/28d (OECD 204)</p> <p>Daphnia toxicity:</p> <p>EC50 Daphnia magna (Big water flea): 2.9 mg/L/48h (OECD 202)</p> <p>NOEC Daphnia magna (Big water flea): 1.18 mg/L/21d (OECD 211)</p> <p>Algae toxicity:</p> <p>ErC50 Desmodesmus subspicatus (green algae): 127.9 mg/L/72h (OECD 201)</p> <p>NOEC Desmodesmus subspicatus (green algae): 2.4 mg/L/72h (OECD 201)</p> <p>Information about Butyl glycolate (CAS 7397-62-8):</p> <p>Fish toxicity:</p> <p>LC50 Danio rerio (zebrafish): 23.1 mg/L/96h (OECD 203)</p> <p>Daphnia toxicity:</p> <p>EC50 Daphnia magna (Big water flea): &gt; 100 mg/L/48h (OECD 202)</p> <p>Information about Dodecan-1-ol, ethoxylated (CAS 9002-92-0):</p> <p>Fish toxicity:</p> <p>LC50 Danio rerio (zebrafish): 0.1 - 1 mg/L/96h (OECD 203)</p> <p>Daphnia toxicity:</p> <p>EC50 Daphnia magna (Big water flea): 0.1 - 1 mg/L/48h (OECD 202)</p> <p>Algae toxicity:</p> <p>ErC10 algae: 0.1 - 1 mg/L/72h (OECD 201)</p>
Effects in sewage plants:	<p>Information about Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine (comparable to CAS 121617-08-1):</p> <p>EC10 Pseudomonas putida: 50 mg/L/18 (DIN 38412)</p>

### Persistence and degradability

Further details:	<p>Biodegradability:</p> <p>Information about Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine (comparable to CAS 121617-08-1):</p> <p>Formation of carbon dioxide: 100%/28d (OECD 301 B), easily bio-degradable</p> <p>Information about Butyl glycolate (CAS 7397-62-8):</p> <p>Formation of carbon dioxide: 81%/28d (OECD 301 B), easily bio-degradable</p> <p>Information about Dodecan-1-ol, ethoxylated (CAS 9002-92-0):</p> <p>Formation of carbon dioxide: &gt; 60%/28d (OECD 301 B), easily bio-degradable</p> <p>The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.</p> <p>Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.</p>
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### Bioaccumulative potential

Partition coefficient — n-octanol/water:

at 23 °C: 1.5 log K(o/w) (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 25 °C: 0.38 log K(o/w) (Butyl glycolate)

Based on the n-octanol/water partition coefficient 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

Product does not facilitate self-sustaining combustion and meets the criteria listed in ADR/RID chapter 2.2.3.1.1, IMDG-Code chapter 2.3.1.3, and IATA chapter 3.3.1.3.

## 15 Regulatory information

#### National regulations - Canada

(2-Methoxymethylethoxy)propanol:	DSL: listed
1-Methoxy-2-propanol:	DSL: listed
Ethanol:	DSL: listed
1-Propoxypropan-2-ol:	DSL: listed
2-(2-Butoxyethoxy)ethanol:	DSL: listed
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine:	DSL: listed
Butyl glycolate:	DSL: listed
Dodecan-1-ol, ethoxylated:	DSL: listed

#### Further regulations, limitations and legal requirements

No data available

## 16 Other information

Text for labelling:	Contains: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine Butyl glycolate labelling for contents according to regulation (EC) No 648/2004, annex VII: Contains less than 5% non-ionic surfactants. Contains perfumes (Limonene).
Revision date:	17/12/2025
Date of first version:	30/10/1994
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:

Acute Toxicity: Acute toxicity  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
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  
ATEmix: Acute Toxicity Estimate of mixture  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DIN: German Institute for Standardization  
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  
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  
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  
NOEC: No Observed Effect Concentration  
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  
Reproductive toxicity: Reproductive toxicity  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Corrosion: Skin corrosion  
Skin Irritation: Skin irritation  
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.