

## 633T25 - Parting Agent for 617HG5 OrthoEpoX GreenLine

Material number 633T25

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### 1. Product and company identification

#### Product identifier

Trade name: 633T25 - Parting Agent for 617HG5 OrthoEpoX GreenLine

#### Recommended use and restrictions on use

General use: Release agent, 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](http://www.ottobock.ca)

E-mail: [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 phone number

**COLLECT, Telephone: (613) 996-6666**

**Transport:**

**CONSULTANK Lutz Harder GmbH (Contract QUALI003)**

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

### 2. Hazards identification

#### Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Form: Aerosol

Odor: No data available

Classification: Aerosol 1. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3.

Aquatic toxicity - chronic 2.

Hazard symbols:



Signal word:

**Danger**

Hazard statements: Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
Toxic 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 breathing mist/vapors/spray.  
Wear protective gloves/protective clothing/eye protection.  
Call a POISON CENTER/doctor if you feel unwell.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Regulatory status

This material is considered hazardous by the WHMIS in Canada.

### Hazards not otherwise classified

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.  
The product is skin resorptive.  
Special danger of slipping by leaking/spilling product..  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterisation: Blend of active ingredients with propellant.

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	50 - 100 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 74-98-6	Propane	10 - 25 %	Flammable Gas 1A. Compressed Gas.
CAS 106-97-8	Butane	10 - 25 %	Flammable Gas 1A. Compressed Gas.
CAS 75-28-5	Isobutane	10 - 25 %	Flammable Gas 1. Compressed Gas.

## 4. 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: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

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After 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.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

### Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. Causes skin irritation.

### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Water spray jet, extinguishing powder, foam, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

### Specific hazards arising from the chemical

Extremely flammable aerosol. Pressurised container: May burst if heated.  
May form dangerous gases and vapors 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:

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.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
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:

Provide adequate ventilation. Eliminate all ignition sources if safe to do so.  
Avoid breathing vapors/spray. Avoid contact with the substance. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.  
Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!  
In case of release, notify competent authorities.

**Methods for clean-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).  
Thoroughly clean surrounding area.  
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

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

## 7. Handling and storage

### Handling

**Advices on safe handling:** Provide adequate ventilation, and local exhaust as needed. Avoid breathing vapors/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. 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. When handling larger quantities, take precautionary measures against electrostatic charging.

### Storage

**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 sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store containers in upright position.

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

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
74-98-6	Propane	Canada: OEL 8 hour	1,000 ppm
106-97-8	Butane	Canada: OEL 8 hour	1,000 ppm
		Canada: OEL STEL	1,000 ppm
		Canada: VEMP	1,900 mg/m <sup>3</sup> ; 800 ppm
75-28-5	Isobutane	Canada: OEL STEL	1,000 ppm
		Canada: VECD	1,000 ppm
		USA: ACGIH: TWA	1,000 ppm
		USA: NIOSH: TWA	1,900 mg/m <sup>3</sup> ; 800 ppm

### Engineering controls

Provide good ventilation and/or an exhaust system in the work area.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

- Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Skin protection: Flame retardant, antistatic and chemical resistant protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Nitrile rubber, butyl caoutchouc (butyl rubber), polyvinyl alcohol  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.  
Wear half-mask respirator with combination filter for organic vapors and particles.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
- 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. Avoid breathing vapors/spray. Do not get in eyes, on skin, or on clothing.  
When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. 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

See subsection 6.2

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

- Appearance: Physical state at 20 °C and 101.3 kPa: liquid  
Form: Aerosol
- Odor: No data available
- Odor threshold: No data available
- pH: No data available
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point/flash point range: No data available
- Evaporation rate: No data available
- Flammability: Extremely flammable aerosol.
- Explosion limits: No data available
- Vapor pressure: No data available
- Vapor density: No data available
- Density: at 20 °C: ≤ 1 g/mL
- Water solubility: insoluble

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Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, kinematic:	at 40 °C: ≤ 7 mm <sup>2</sup> /s
Explosive properties:	Product is not explosive. Vapors may form explosive mixtures with air.

## 10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors 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.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	No decomposition when used properly.
Thermal decomposition:	No data available

## 11. Toxicological information

### Toxicological tests

Toxicological effects:	The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
	Acute toxicity (oral): Lack of data.
	Acute toxicity (dermal): Lack of data.
	Acute toxicity (inhalative): Lack of data.
	Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.
	Serious eye damage/irritation: Lack of data.
	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): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.
	Specific target organ toxicity (repeated exposure): Lack of data.
	Aspiration hazard: Lack of data.

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Other information: Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:  
LD50 Rat, oral: > 5,000 mg/kg  
LD50 Rabbit, dermal: > 3,000 mg/kg  
LC50 Rat, inhalative (vapors): > 20 mg/L

### Symptoms

Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Higher doses may lead to a narcotic effect.

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.  
Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:  
Fish toxicity:  
LL50 Oncorhynchus mykiss: 18.27 mg/L/96h (QSAR)  
NOEC Oncorhynchus mykiss: 4.089 mg/L/28d (QSAR)  
Daphnia toxicity:  
EL50 Daphnia magna (Big water flea): 31.9 mg/L/48h (QSAR)  
NOEC Daphnia magna (Big water flea): 7.138 mg/L/21d (QSAR)  
Algae toxicity:  
EL50 Pseudokirchneriella subcapitata (green algae), growth rate: 13.56 mg/L/72h (QSAR)  
NOELR Pseudokirchneriella subcapitata (green algae), growth rate: 3.034 mg/L/72h (QSAR)

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

Volatile organic compounds (VOC):  
62.02 % by weight / 496.14 g/L  
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

### 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.

### Package

Recommendation: Dispose of waste according to applicable legislation.  
Empty carefully and completely, if possible. Handle empty containers with care.  
Incineration may cause explosion.

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### 14. Transport information

#### UN number

ADR/RID, IMDG, IATA-DGR:

UN 1950

#### UN proper shipping name

ADR/RID:

UN 1950, AEROSOLS

IMDG:

UN 1950, AEROSOLS (Hydrocarbons, C6, isoalkanes, < 5% n-hexane),  
MARINE POLLUTANT

IATA-DGR:

UN 1950, AEROSOLS, FLAMMABLE

#### Transport hazard class(es)

ADR/RID:

Class 2, Code: 5F

IMDG:

Class 2.1, Subrisk -

IATA-DGR:

Class 2.1

#### Packing group

ADR/RID, IATA-DGR:

not applicable

IMDG:

-

#### Environmental hazards

Marine pollutant:

yes



#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

#### Canada: Transportation of Dangerous Goods (TDG)

UN Number:

UN1950

Shipping name:

UN 1950, AEROSOLS

TDG class:

2.1

Special provisions:

80, 107

Explosive limit and limited quantity index:

1 L

Passenger carrying road or rail index:

75 L



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### Sea transport (IMDG)

UN number: UN 1950  
Proper shipping name:: UN 1950, AEROSOLS (Hydrocarbons, C6, isoalkanes, < 5% n-hexane), MARINE POLLUTANT  
Class or division, Subsidiary risk: Class 2.1, Subrisk -  
Packing Group: -  
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: yes  
Segregation group: none

### Air transport (IATA)

UN/ID number: UN 1950  
Proper shipping name:: UN 1950, AEROSOLS, FLAMMABLE  
Class or division, Subsidiary risk: Class 2.1  
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

Propane: DSL: listed  
Butane: DSL: listed  
Isobutane: DSL: listed

## 16. Other information

Text for labeling: Contains 50 - 100 % Hydrocarbons, C6, isoalkanes, < 5% n-hexane, 10 - 25 % Propane, 10 - 25 % Butane, 10 - 25 % Isobutane.

### Hazard rating systems:



#### NFPA Hazard Rating:

Health: 2 (Moderate)  
Fire: 3 (Serious)  
Reactivity: 0 (Minimal)

#### HMIS Version III Rating:

Health: 2 (Moderate)  
Flammability: 3 (Serious)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
	X

### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aerosol: Aerosol  
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  
EC: European Community  
EL50: Effective loading rate 50%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
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  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEC: No Observed Effect Concentration  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irritation: Skin irritation  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit  
WHMIS: Workplace Hazardous Materials Information System

Reason of change: Changes in section 8: Occupational exposure limit values

Date of first version: 11/3/2022

### 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.