



# SAFETY DATA SHEET

according to HCS 2024 (29 CFR 1910.1200)

## 617F3 - Parting Agent for ORTHOCRYL Resins

Material number 617F3

Revision date: 12/17/2025  
Version: 9.3  
Replaces version: 9.2  
Language: en-US  
Date of print: 5/29/2026

Page: 1 of 10

### 1. Identification

#### Product identifier

Trade name: 617F3 - Parting Agent for ORTHOCRYL Resins

#### Relevant identified uses of the substance or mixture and uses advised against

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

#### Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care  
Street/POB-No.: 3820 W. Great Lakes Drive  
Zip code, city: Salt Lake City, UT 84120  
USA  
WWW: [www.ottobockus.com](http://www.ottobockus.com)  
Telephone: +1 (801) 956-2400  
Telefax: +1 (801) 956-2401  
Department responsible for information:  
Quality Department,  
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),  
Email: [USRegulatory@ottobock.com](mailto:USRegulatory@ottobock.com)  
Additional information: Corporate headquarters:  
Ottobock SE & Co. KGaA  
Max-Näder-Straße 15  
Duderstadt  
Germany

#### Emergency telephone number

CHEMTREC, Telephone: +1 (800) 424-9300

### 2. Hazard identification

#### Classification of the substance or mixture

This material is classified as not hazardous.

#### Label elements

Symbols: not applicable

Hazard statements: not applicable

Precautionary statements: not applicable

#### Other hazards

vapors: Can damage your health.

### 3. Composition/information on ingredients

#### Mixtures

Chemical characterization: Solution of polyvinyl alcohol in water and alcohol.

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 64-17-5	Ethanol	2.5 - 10 %	Flammable Liquid - Category 2.
CAS 67-56-1	Methanol	< 2.5 %	Flammable Liquid - Category 2. Acute Toxicity - oral - Category 3. Acute Toxicity - dermal - Category 3. Acute Toxicity - inhalative - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 1.
CAS 78-93-3	Butanone	< 2.5 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.

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

### 4. First aid measures

General information:	Seek medical assistance when anyone has symptoms apparently due to inhalation, swallowing or contact with skin or eyes.
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.
Following skin contact:	Take off immediately all contaminated clothing. Thoroughly wash skin with soap and water. Do not use solvents or thinners.
After eye contact:	Remove contact lenses. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After swallowing:	Do not induce vomiting. Keep victim calm. Consult physician.

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

Inhalation of vapors exceeding the allowable WEL/TLV-levels may pose a health hazard as well as lead to irritation of mucous membranes and respiratory system, cause kidney and liver damage as well as adversely affect the central nervous system.

symptoms:

Headache, dizziness, fatigue, muscle weakness, numbing effect and, in exceptional cases, unconsciousness.

Prolonged or repeated contact with the product affects the skin's natural oils and induces drying up. The product can be absorbed through skin.

Splashing may cause eye irritation and reversible damage.

#### Information to physician

Treat symptomatically.

### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, dry chemical powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

#### Specific hazards arising from the chemical

Exposure to fire produces thick, black smoke that is hazardous to health.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus.

Additional information:

Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe vapors.

Keep away from sources of ignition.

Wear appropriate protective equipment. Keep unprotected people away.

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

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance.

Do not clean with solvents.

Additional information:

Take precautionary measures against static discharge.

### 7. Handling and storage

#### Precautions for safe handling

Advices on safe handling:

Avoid formation of flammable and potentially explosive solvent vapors in the air. Avoid exceeding WEL threshold levels. Keep away from open flames and other sources of ignition.

Product may become electrostatically charged. When decanting, use only grounded equipment and conduits.

Use only spark proof tools. Avoid contact with skin and eyes. Do not inhale vapor or fog.

When using do not eat, drink or smoke.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Vapors are heavier than air and will travel at floor level. Vapors form explosive mixtures with air.

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep only in the original container in a cool, well-ventilated place.  
Keep containers tightly closed and at a temperature between 59 °F and 86 °F.  
Electrical equipment must be explosion protected according to standards. Store containers carefully closed and upright to prevent any leaks.

Hints on joint storage:

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

Further details:

Protect from heat and direct sunlight.

## 8. Exposure controls/personal protection

### Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64-17-5	Ethanol	USA: ACGIH: STEL USA: IDLH: TWA USA: NIOSH: TWA USA: OSHA: TWA	1,000 ppm 3,300 ppm [10% LEL] 1,900 mg/m <sup>3</sup> ; 1,000 ppm 1,900 mg/m <sup>3</sup> ; 1,000 ppm
67-56-1	Methanol	USA: ACGIH: STEL  USA: ACGIH: TWA  USA: IDLH: TWA USA: NIOSH: STEL  USA: NIOSH: TWA  USA: OSHA: TWA	328 mg/m <sup>3</sup> ; 250 ppm (may be absorbed through the skin) 262 mg/m <sup>3</sup> ; 200 ppm (may be absorbed through the skin) 6,000 ppm 325 mg/m <sup>3</sup> ; 250 ppm (may be absorbed through the skin) 260 mg/m <sup>3</sup> ; 200 ppm (may be absorbed through the skin) 260 mg/m <sup>3</sup> ; 200 ppm
78-93-3	Butanone	USA: ACGIH: STEL  USA: ACGIH: TWA  USA: IDLH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	150 ppm (may be absorbed through the skin) 75 ppm (may be absorbed through the skin) 3,000 ppm 885 mg/m <sup>3</sup> ; 300 ppm 590 mg/m <sup>3</sup> ; 200 ppm 590 mg/m <sup>3</sup> ; 200 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-56-1	Methanol	USA: ACGIH-BEI, urine	15 mg/L	Methanol	end of exposure or end of shift
78-93-3	Butanone	USA: ACGIH-BEI, urine	2 mg/L	MEK	end of exposure or end of shift

### Appropriate engineering controls

Explosion protection required.

### Personal protection equipment (PPE)

Respiratory protection:	Provide good ventilation and/or an exhaust system in the work area. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2 Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
Hand protection:	Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Butyl caoutchouc (butyl rubber)-Layer thickness: 0,7 mm - Breakthrough time: >240 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:	Anti-static clothing including shoes are recommended.
General hygiene considerations:	Immediately remove all contaminated clothing. Wash hands before breaks and after work.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state at 68 °F and 101.3 kPa	Form: liquid
Color:	colorless
Odor:	similar to solvents
Odor threshold:	No data available
Melting point/freezing point:	n.a.
Initial boiling point and boiling range:	172.4 °F
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 3.50 Vol-% UEL (Upper Explosive Limit): 15.00 Vol-%
Flash point/flash point range:	212 °F
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	Hazardous decomposition byproducts may form with exposure to high temperatures.
pH:	No data available
Viscosity, kinematic:	at 68 °F: 45 - 55 s (DIN 53211)
Water solubility:	at 68 °F: miscible
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	at 68 °F: 60 hPa
Density:	at 68 °F: 1.02 g/mL
Vapor density:	No data available
Particle characteristics:	Not applicable

### Additional information

Ignition temperature:	797 °F
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### 10. Stability and reactivity

Reactivity:	refer to 10.3 Avoid formation of flammable and potentially explosive solvent vapors in the air.
Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions:	Vapors form explosive mixtures with air. Product may become electrostatically charged.
Conditions to avoid:	When decanting, use only grounded equipment and conduits. Use only spark proof tools. When using do not eat, drink or smoke.
Incompatible materials:	Strong acid or bases as well as oxidizing agents.
Hazardous decomposition products:	Nitrogen oxides, smoke, carbon dioxide, carbon monoxide.

### 11. Toxicological information

#### Information on toxicological effects

Toxicological effects:	Acute toxicity (oral): Lack of data. Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Lack of data. 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): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.
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#### Symptoms

Inhalation of vapors exceeding the allowable WEL/TLV-levels may pose a health hazard as well as lead to irritation of mucous membranes and respiratory system, cause kidney and liver damage as well as adversely affect the central nervous system.

symptoms:  
Headache, dizziness, fatigue, muscle weakness, numbing effect and, in exceptional cases, unconsciousness.

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Splashing may cause eye irritation and reversible damage.

## 12. Ecological information

### Ecotoxicity

Further details: No data available

### 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 surface water or drains.

## 13. Disposal considerations

### Waste treatment methods

#### Product

Recommendation: Incinerate according to applicable local, state and federal regulations.

#### Package

Recommendation: Dispose of waste according to applicable legislation.

## 14. Transport information

### UN number

DOT, IMDG, IATA-DGR: not applicable

### UN proper shipping name

DOT, IMDG, IATA-DGR: Not restricted

### Transport hazard class(es)

DOT, IMDG, IATA-DGR: not applicable

### Packing group

DOT, IMDG, IATA-DGR: not applicable

### Environmental hazards

Marine pollutant: no

### Transport in bulk according to IMO instruments

No data available

### Special precautions for user

#### USA: Department of Transportation (DOT)

Proper 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 - U.S. Federal Regulations

Ethanol:	<p>TSCA Inventory: listed</p> <p>NIOSH Recommendations: Occupational Health Guideline: 0262</p>
Methanol:	<p>TSCA Inventory: listed</p> <p>Clean Air Act: CAA Hazardous Air Pollutants: yes CAA SOCM Chemical: yes</p> <p>Other Environmental Laws: CERCLA: RQ 5000 lbs. SARA Title III, Section 313, Toxic Release: NPFAS; De Minimis &lt;=1.0 %; Thresholds 25000/10000 lbs</p> <p>NIOSH Recommendations: Occupational Health Guideline: 0397</p>
Butanone:	<p>TSCA Inventory: listed</p> <p>Clean Air Act: CAA Hazardous Air Pollutants: yes CAA SOCM Chemical: yes</p> <p>Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Waste Code U159, D035; Reg. Level 200.0 mg/L RCRA Groundwater Monitoring: listed</p> <p>NIOSH Recommendations: Occupational Health Guideline: 0069*</p>
Polyvinyl alcohol:	<p>TSCA Inventory: listed</p> <p>Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed</p>



## National regulations - U.S. State Regulations

Methanol: California Proposition 65:  
developmental  
New York Right-To-Know: listed  
Butanone: New York Right-To-Know: listed

## Further regulations, limitations and legal requirements

No data available

## 16. Other information

Revision date: 12/17/2025  
Date of first version: 10/6/1994  
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)

Hazard rating systems:



NFPA Hazard Rating:  
Health: 1 (Slight)  
Fire: 1 (Slight)  
Reactivity: 0 (Minimal)  
HMIS Version III Rating:  
Health: 1 (Slight)  
Flammability: 1 (Slight)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
DOT: Department of Transportation's Safety Regulations (USA)  
EC: European Community  
EEC: European Economic Community  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
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  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative



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Page: 10 of 10

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.