

## 1 Identification

### Product identifier

Trade name: 85F1 - Plaster Parting Agent

### Recommended use and restrictions on use

General use: Release agent for plaster and acryl for orthopedic procedures.  
For commercial user only.

### 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

Eye Irritation 2 Causes serious eye irritation.  
Aquatic toxicity - chronic 3 Harmful to aquatic life with long lasting effects.

### Information elements

Symbols:



Signal word:

**Warning**

Hazard statements:

Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements:

Wash hands and face thoroughly after handling.

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.

If eye irritation persists: Get medical advice/attention.

### 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

#### Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 107-21-1	Ethanediol	1 - 3 %	Acute Toxicity 4 (oral). Specific Target Organ Toxicity (Repeated Exposure) 2.
CAS 69011-36-5	Isotridecanol, ethoxylated	< 3 %	Acute Toxicity 4 (oral). Eye Damage 1.
CAS 1314-13-2	Zinc oxide	< 2.5 %	Aquatic toxicity - acute 1 (M-factor = 1). Aquatic toxicity - chronic 1 (M-factor = 1).
CAS 1336-21-6	Ammonia, aqueous solution	< 1 %	Skin Corrosion 1B. Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3. Aquatic toxicity - acute 1 (M-factor = 1). Aquatic toxicity - chronic 2.
CAS 2634-33-5	1,2-Benzisothiazol-3 (2H)-one	< 0.005 %	Acute Toxicity 4 (oral). Skin Irritation 2. Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - acute 1 (M-factor = 1). Aquatic toxicity - chronic 2.
CAS 2682-20-4	2-Methyl-2H-isothiazol-3-one	< 0.0015 %	Acute Toxicity 3 (oral). Acute Toxicity 3 (dermal). Acute Toxicity 2 (inhalative). Skin Corrosion 1B. Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - acute 1 (M-factor = 10). Aquatic toxicity - chronic 1 (M-factor = 1).

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

Additional information: Contains 2-(2-Ethoxyethoxy)ethanol: 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.

In case of inhalation:	Provide fresh air. If the symptoms persist, seek medical attention.
In case of swallowing:	Never give anything by mouth to an unconscious person. Rinse mouth and drink large quantities of water. Seek medical treatment in case of troubles.
In case of skin contact:	Immediately clean with water and soap followed by thorough rinsing. 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. Subsequently consult an ophthalmologist.

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

Causes serious eye irritation. May cause allergic reactions in already sensitized persons.

### 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, alcohol resistant foam, extinguishing powder, carbon dioxide

Unsuitable extinguishing media:

Full water jet

### Specific hazards arising from the product

In case of fire may be liberated: carbon monoxide and carbon dioxide.

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

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

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone.  
Suppress gases/vapours/mists with water spray jet.  
Do not allow fire water to penetrate into surface or ground water.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away. Take off contaminated clothing and wash it before reuse.

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

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.  
Store in special closed containers and dispose of according to ordinance. Final cleaning.

Additional information:

Special danger of slipping by leaking/spilling product.

## 7 Handling and storage

### Precautions for safe handling

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

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed. Keep only in the original container.  
Protect from frost.

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

## 8 Exposure controls/Personal protection

### Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
111-90-0	2-(2-Ethoxyethoxy)ethanol	Canada: Ontario, OEL TWA	165 mg/m <sup>3</sup> ; 30 ppm
107-21-1	Ethanediol	Canada: Alberta, OEL Ceiling	100 mg/m <sup>3</sup>
		Canada: BC, OEL Ceiling	100 mg/m <sup>3</sup> (Aerosol)
		Canada: BC, OEL Ceiling	50 ppm (vapour)
		Canada: BC, OEL STEL	20 mg/m <sup>3</sup> (Aerosol)
		Canada: BC, OEL TWA	10 mg/m <sup>3</sup> (Aerosol)
		Canada: Québec, Plafond	127 mg/m <sup>3</sup> ; 50 ppm
1314-13-2	Zinc oxide	Canada: Alberta, OEL 15 min	10 mg/m <sup>3</sup>
		Canada: Alberta, OEL 8 hour	2 mg/m <sup>3</sup>
		Canada: BC, OEL STEL	10 mg/m <sup>3</sup> (respirable fraction)
		Canada: BC, OEL TWA	2 mg/m <sup>3</sup> (respirable fraction)
		Canada: Québec, VECD	10 mg/m <sup>3</sup> (respirable fraction)
		Canada: Québec, VEMP	2 mg/m <sup>3</sup> (respirable fraction)
7664-41-7	Ammonia, anhydrous	Canada: Alberta, OEL 15 min	24 mg/m <sup>3</sup> ; 35 ppm
		Canada: Alberta, OEL 8 hour	17 mg/m <sup>3</sup> ; 25 ppm
		Canada: BC, OEL STEL	35 ppm
		Canada: BC, OEL TWA	25 ppm
		Canada: Québec, VECD	24 mg/m <sup>3</sup> ; 35 ppm
		Canada: Québec, VEMP	17 mg/m <sup>3</sup> ; 25 ppm

### 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: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.  
Use filter type A (= against vapours 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: nitrile rubber, butyl caoutchouc (butyl rubber)-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, eyes, and clothing. Take off immediately all contaminated clothing. Do not breathe vapours. Wear appropriate protective equipment. Have eye wash bottle or eye rinse ready at work place. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. When using do not eat, drink or smoke.

### 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:	white milky
Odour:	No data available
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
pH:	approx. 8.0 (ISO 4316)
Water solubility:	Completely miscible
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	No data available
Density and/or relative density	at 20 °C: 1.03 g/mL (OECD 109)
Vapour density:	No data available
Particle characteristics:	Not applicable

### Additional information

Explosive properties:	not explosive
Oxidizing characteristics:	Not oxidising

## 10 Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reactions are known.
Conditions to avoid:	heating
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.

ATEmix (calculated): > 2,000 mg/kg

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Eye Irritation 2 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

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

Contains 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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.

### Other information:

Information about 2-(2-Ethoxyethoxy)ethanol (CAS 111-90-0):

LD50 Rat, oral: 5,540 mg/kg

LD50 Rabbit, dermal: 5,940 mg/kg

LC0 Rat, inhalative (mist): > 5.24 mg/L/8h (OECD 403)

Information about Ethanediol (CAS 107-21-1):

LD50 Rat, oral: 7,712 mg/kg

LD50 Rabbit, dermal: > 2,000 mg/kg

LC50 Rat, inhalative (mist): > 2.5 mg/L/6h (no mortality occurred)

Information about Isotridecanol, ethoxylated (CAS 69011-36-5):

LD50 Rat, oral: 300 - 2,000 mg/kg (OECD 423)

LD50 Rabbit, dermal: > 2,000 mg/kg

Information about Zinc oxide (CAS 1314-13-2):

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

Information about Ammonia, aqueous solution (CAS 1336-21-6):

LD50 Rat, oral: 350 mg/kg

LC50 Rat, inhalative: 7.035 mg/L/0.5 h

Information about 1,2-Benzisothiazol-3(2H)-one (CAS 2634-335):

LD50 Rat, oral: > 2,000 mg/kg

LD50 Rabbit, dermal: > 2,000 mg/kg (OECD 402)

Information about 2-Methyl-2H-isothiazol-3-one (CAS 2682-20-4):

LD50 Rat, oral: 120 mg/kg (OECD 401)

LD50 Rabbit, dermal: 242 mg/kg (OECD 402)

LC50 Rat, inhalative (mist): 0.11 mg/L/4h (OECD 403)

### Symptoms

In case of inhalation: Mucous membrane irritation, cough.

In case of ingestion:

After intake of large amounts: nausea, vomiting, Diarrhea, CNS disorders.

After contact with skin: Mild irritant.

Ethylene glycol: Danger of cutaneous absorption.

## 12 Ecological information

### Ecotoxicity

#### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Information about Zinc oxide:

Fish toxicity:

LC50 Oncorhynchus mykiss: 1.1 mg/L/96h

Daphnia toxicity:

NOEC Daphnia magna (Big water flea): 0.4 mg/L/48h

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): 0.17 mg/L/72h

Information about Ammonia, aqueous solution:

Fish toxicity:

LC50 fish: 0.56 - 2.48 mg/L/96h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 1.1 - 22.8 mg/L

### 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 penetrate into soil, waterbodies or drains.

## 13 Disposal considerations

### Waste treatment methods

#### Product

Recommendation: Dispose of waste according to applicable legislation.

#### Package

Recommendation: Incinerate according to applicable local, state and federal regulations.  
Non-contaminated packages may be recycled.

## 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**

2-(2-Ethoxyethoxy)ethanol: DSL: listed  
Tris(2-Butoxyethyl) phosphate: DSL: listed  
Ethanediol: DSL: listed  
Isotridecanol, ethoxylated: DSL: listed  
Zinc oxide: DSL: listed  
Ammonia, aqueous solution: DSL: listed  
1,2-Benzisothiazol-3(2H)-one: DSL: listed  
2-Methyl-2H-isothiazol-3-one: DSL: listed  
Ammonia, anhydrous: DSL: listed  
Priority Substances List: listed (PSL 2)  
CEPA Schedule 1: listed

**Further regulations, limitations and legal requirements**

No data available

**16 Other information**

Revision date: 17/12/2025

Date of first version: 25/8/2011

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

### Abbreviations and acronyms:

Acute Toxicity: Acute toxicity  
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  
CEPA: Canadian Environmental Protection Act  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
CNS: Central Nervous System  
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  
LC0: Lethal concentration 0%  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
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  
PSL: Priority Substances List  
Sensitization - skin: Skin sensitisation  
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.