

## 1. Product and company identification

**Product identifier**

Trade name: 85F1 - Plaster Parting Agent

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

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

**Details of the supplier of the safety data sheet**

Company name: Otto Bock Health Care  
Street/POB-No.: 3820 W. Great Lakes Drive  
Postal 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

Dept. responsible for information:

Quality Department,  
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time), Email:  
[USRegulatory@ottobock.com](mailto:USRegulatory@ottobock.com)

**Emergency phone number**

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

## 2. Hazards identification

**Emergency overview**

Appearance: Form: liquid  
Color: milky, white  
Odor: like Fragrance  
Classification: Eye Irritation - Category 2A;

Hazard symbols:



Signal word:

**Warning**

Hazard statements:

Causes serious eye irritation.

Precautionary statements:

Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection.  
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.

**Regulatory status**

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

**Hazards not otherwise classified**

see section 11: Toxicological information

**3. Composition / Information on ingredients**

Chemical characterization: Contains nonionic surfactant 1-5%, 1,2-Benzisothiazol-3(2H)-one and perfumes.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 111-90-0	2-(2-Ethoxyethoxy) ethanol	1 - 5 %	Eye Irritation - Category 2A.
CAS 107-21-1	Glycol	1 - 5 %	Acute Toxicity - oral - Category 4.
CAS 24938-91-8	Alcohols, C8-18, ethoxylated	1 - 5 %	Acute Toxicity - oral - Category 4. Eye Damage - Category 1.

**4. First aid measures**

- General information: Take off immediately all contaminated clothing.
- In case of inhalation: Provide fresh air.  
If the symptoms persist, seek medical attention.
- Following skin contact: After contact with skin, wash immediately with soap and plenty of water.  
Seek medical attention if irritation persists.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
Subsequently consult an ophthalmologist.
- After 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.

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

Causes serious eye irritation.

**Information to physician**

Treat symptomatically.

**5. Fire fighting measures**

- Flash point/flash point range: no data available
- Auto-ignition temperature: not self-igniting
- Suitable extinguishing media: Water fog, foam, dry chemical powder, carbon dioxide
- Extinguishing media which must not be used for safety reasons: High power water jet

**Specific hazards arising from the chemical**

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

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus. Wear protective equipment.

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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: Avoid contact with skin, eyes, and clothing. Do not breathe vapor or spray. Suitable protective clothing. Provide adequate ventilation.

Environmental precautions: Discharge into the environment must be avoided.  
 Do not empty into drains.

Methods for clean-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.

**7. Handling and storage**

**Handling**

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.  
 Avoid contact with skin, eyes, and clothing. Do not breathe vapors.  
 Wear protective equipment. When using do not eat, drink or smoke.

**Storage**

Requirements for storerooms and containers: Keep container tightly closed. Keep only in the original container.  
 Protect from frost.

Hints on joint storage: Do not store together with Acids.  
 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
107-21-1	Glycol	ACGIH: Ceiling	100 mg/m <sup>3</sup> ; 39.4 ppm

**Engineering controls**

Use only outdoors or in a well-ventilated 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: Suitable protective clothing.  
 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.

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**Respiratory protection:** Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

**General hygiene considerations:**

Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing.

Do not breathe vapors. Wear 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.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Form: liquid Color: milky, white
Odor:	like Fragrance
Odor threshold:	no data available
pH value:	8.5
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:	no data available
Explosion limits:	no data available
Vapor pressure:	no data available
Vapor density:	no data available
Density:	at 68 °F: 1.03 g/mL
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	no data available
Additional information:	Stability against cold temperatures: approx. 42.8 °F

## 10. Stability and reactivity

Reactivity:	no data available
Chemical stability:	Stable under recommended storage conditions. Stability against cold temperatures: approx. 42.8 °F
Possibility of hazardous reactions	No dangerous reactions are known.
Conditions to avoid:	Protect from frost., heating
Incompatible materials:	Acids. Do not mix with other chemicals.

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Hazardous decomposition products:

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

Thermal decomposition: no data available

**11. Toxicological information****Toxicological tests**

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.  
Eye damage/irritation: Eye Irritation - Category 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): Lack of data.  
Aspiration hazard: Lack of data.

Other information: 2-(2-Ethoxyethoxy)ethanol:  
Substance alters haemoglobin (formation of methaemoglobin) and destroys red blood cells (haemolysis). injuries of the internal organs.  
Ethylene glycol:  
LDLo human, oral: 786mg/kg. Systemic effects: After latency period: fatigue, ataxia (coordination impairment), unconsciousness, damage of kidneys.  
Symptoms of poisoning may occur after inhalation of the heated substance's vapors, prolonged contact with the liquid and oral ingestion.

**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**

Further details: no data available

**Mobility in soil**

no data available

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**Persistence and degradability**

Further details: 2-(2-Ethoxyethoxy)ethanol:  
Biodegradation: 90% /28 d (OECD-test).  
Readily biodegradable (according to OECD criteria).  
Ethylene glycol:  
Biodegradation: 83 - 96 %/14 d.  
Product is readily biodegradable.

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

**Additional ecological information**

General information: Do not allow to penetrate into soil, waterbodies or drains.

**13. Disposal considerations****Product**

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

**Contaminated packaging**

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

**14. Transport information****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.

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**15. Regulatory information**

**National regulations - U.S. Federal Regulations**

2-(2-Ethoxyethoxy)ethanol: TSCA Inventory: listed  
 TSCA HPVC: not listed  
 Clean Air Act:  
     Hazardous Air Pollutants: yes  
     SOCMI Chemical: yes

Glycol: TSCA Inventory: listed; EPA flags T  
 TSCA HPVC: not listed  
 Clean Air Act:  
     Hazardous Air Pollutants: Code XO  
     SOCMI Chemical: yes  
 Other Environmental Laws:  
     CERCLA: RQ 5000 lbs.  
     SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard  
 NIOSH Recommendations:  
     Occupational Health Guideline: 0272

Alcohols, C8-18, ethoxylated: TSCA Inventory: listed; EPA flags XU  
 TSCA HPVC: not listed

**National regulations - U.S. State Regulations**

Glycol: California Proposition 65 code: -  
 Delaware Air Quality Management List:  
     DRQ: 5000 - RQ State: Federal Regulations Apply  
 Idaho Air Pollutant List:  
     Title 585: AAC: 6.35 - EL: 0.846 - OEL: 127 - Title 586: -  
 Maine Hazardous Air Pollutants:  
     Me 2005: HAP - Hap Rpt: 2000  
 Massachusetts Haz. Substance codes: 4 F9  
 Minnesota Haz. Substance:  
     Codes: A - Ratings: 7.26 - Status: Air Pollutant Title III. TRI.  
 New Jersey RTK Hazardous Substance:  
     DOT: 1142 - Sub No.: 0878 - TPQ: -  
 New York List of Hazardous Substances:  
     RQ-Air: 1 - RQ-Land: 1 - Note: No Note Associated with this chemical.  
 Pennsylvania Haz. Substance code: E  
 Washington Air Contaminant:  
     Ceiling: 50 ppm - 125 mg

**National regulations - Great Britain**

Hazchem-Code: -

**16. Other information**

Text for labeling: Contains 1 - 5 % 2-(2-Ethoxyethoxy)ethanol, 1 - 5 % Glycol, 1 - 5 % Alcohols, C8-18, ethoxylated. Safety data sheet available on request.

# SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

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Material number 085F1

Revision date: 3/6/2015  
Version: 5  
Language: en-US  
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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

Reason of change:

Changes in section 1: Address

Date of first version:

8/25/2011

### Department issuing data sheet

Contact person:

see section 1: Dept. 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.