

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

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

Additional information:

Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

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.

Relevant 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 spray jet, foam, dry chemical powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

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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 appropriate protective equipment.

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 appropriate 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	USA: ACGIH: STEL	10 mg/m ³
		USA: ACGIH: STEL	50 ppm
		USA: ACGIH: TWA	25 ppm

Engineering controls

Use only outdoors or in a well-ventilated area.

See also information in chapter 7, section storage.

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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.
- 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 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.

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.

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.
- Serious 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.

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12. Ecological information**Ecotoxicity**

Further details: No data available

Mobility in soil

No data available

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.

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 V
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.

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 1.3: Corporate headquarters

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.