

## 1. Identification

### Product identifier

Trade name: 636W112- Pattex Repair Exterme

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

General use: Adhesive 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

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

## 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:

If skin irritation or rash occurs: Get medical advice/attention.

### Other hazards

With exposure to moisture, product will release methanol.

Methanol: Toxic by inhalation, in contact with skin and if swallowed.

### 3. Composition/information on ingredients

#### Mixtures

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 2768-02-7	Trimethoxyvinylsilane	< 10 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4.
CAS 1760-24-3	N-(3-(Trimethoxysilyl)propyl) ethylenediamine	< 1 %	Acute Toxicity - inhalative - Category 4. Eye Damage - Category 1. Sensitization - skin - Category 1.

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

Additional information: With exposure to moisture, product will release methanol.  
Exposure limit values refer to section 8.

### 4. First aid measures

In case of inhalation: Move victim to fresh air.  
If the casualty has difficulty breathing, call a doctor immediately.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water.  
Change contaminated clothing.  
If skin irritation or rash occurs: Get medical advice/attention.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth with water. Drink one or two glasses of water. Seek medical attention.  
Never give anything by mouth to an unconscious person.

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

Mild irritant.  
In case of prolonged or frequently repeated skin contact: May cause allergies in rare instances.

#### Information to physician

Treat symptomatically.

### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water spray jet, foam, dry chemical powder, carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

Full water jet

#### Specific hazards arising from the chemical

Combustible. In case of fire may be liberated: Silicon dioxide, Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide and carbon dioxide (CO<sub>2</sub>).

### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus. Wear personal protection equipment.

Additional information: Do not allow fire water to penetrate into surface or ground water.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation, and local exhaust as needed.

Wear protective equipment. Avoid contact with skin and eyes.

Do not breathe vapors. Remove all sources of ignition.

Environmental precautions:

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

### Methods and material for containment and cleaning up

Methods for clean-up: Take up mechanically, placing in appropriate containers for disposal.

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.

Wear protective equipment. Avoid contact with skin and eyes.

Do not breathe vapors. When using do not eat, drink or smoke.

Wash hands before breaks and after work.

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry area. Protect from humidity and water.

Protect from frost. Storage temperature: 41 - 95 °F.

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
67-56-1	Methanol	USA: ACGIH: STEL	328 mg/m <sup>3</sup> ; 250 ppm (may be absorbed through the skin)
		USA: ACGIH: TWA	262 mg/m <sup>3</sup> ; 200 ppm (may be absorbed through the skin)
		USA: IDLH: TWA	6,000 ppm
		USA: NIOSH: STEL	325 mg/m <sup>3</sup> ; 250 ppm (may be absorbed through the skin)
		USA: NIOSH: TWA	260 mg/m <sup>3</sup> ; 200 ppm (may be absorbed through the skin)
		USA: OSHA: TWA	260 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

### Appropriate engineering controls

Provide adequate ventilation, and local exhaust as needed.

### Personal protection equipment (PPE)

Respiratory protection: When vapors form, use respiratory protection.

Use filter type AX (= against vapors of low boiling 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.

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 and eyes. Do not breathe vapors.

When using do not eat, drink or smoke. Wash hands before breaks and after work.

Change 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, viscous
Color:	colorless, clear
Odor:	odorless
Odor threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 1.40 Vol-% UEL (Upper Explosive Limit): 50.00 Vol-%
Flash point/flash point range:	165.2 °F
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	While curing will be generated: Methanol
pH:	No data available
Dynamic viscosity:	150,000 - 250,000 mPa*s
Solubility:	No data available

Partition coefficient: n-octanol/water:	(N-(3-(Trimethoxysilyl)propyl)ethylenediamine) -1.67 log P(o/w) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Vapor pressure:	No data available
Density:	1.10 g/cm <sup>3</sup>
Vapor density:	No data available
Particle characteristics:	Not applicable

## 10. Stability and reactivity

Reactivity:	Moisture-sensitive. With exposure to moisture, product will release methanol.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Non, if handled and stored appropriately.
Conditions to avoid:	Protect from moisture contamination. Excessive heating.
Incompatible materials:	Water, humidity
Hazardous decomposition products:	In case of fire may be liberated: Silicon dioxide, Nitrogen oxides (NO <sub>x</sub> ), Carbon monoxide and carbon dioxide (CO <sub>2</sub> ).

## 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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### Other information:

Trimethoxyvinylsilane:

LD50 Rat, oral: 7120 mg/kg

LD50 Rabbit, dermal: 3434 mg/kg

LC50 Rat, inhalative 16 mg/L/4h

LC50 Rat, inhalative 2714 ppm/4h

With exposure to moisture, product will release methanol.

Methanol: Toxic by inhalation, in contact with skin and if swallowed.

### Symptoms

In case of inhalation: Potential health effects.

In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

After contact with skin:

Mild irritant. In case of prolonged or frequently repeated skin contact: May cause allergies in rare instances.

After eye contact: Mild irritant.

Symptoms: Conjunctival redness

## 12. Ecological information

### Ecotoxicity

#### Aquatic toxicity:

Trimethoxyvinylsilane:

Fish toxicity: LC50 Oncorhynchus mykiss: 191 mg/L/96h. (OECD 203)

Daphnia toxicity: EC50 Daphnia magna (Big water flea): >100 mg/L/48h (OECD 202)

Algae toxicity: IC50 >100 mg/L/72h (OECD 201)

### Persistence and degradability

#### Further details:

No data available

### Bioaccumulative potential

#### Partition coefficient: n-octanol/water:

(N-(3-(Trimethoxysilyl)propyl)ethylenediamine) -1.67 log P(o/w)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

### 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:

Incinerate according to applicable local, state and federal regulations.

#### Package

##### Recommendation:

Recycle only completely emptied packaging.

If recycling is not practicable, dispose of in compliance with local regulations.

### 14. Transport information

#### UN number

DOT: UN1133

#### UN proper shipping name

DOT: UN 1133, ADHESIVES

IMDG, IATA-DGR: Not restricted

#### Transport hazard class(es)

DOT: 3

#### Packing group

DOT: III

#### Environmental hazards

Marine pollutant: no

#### Transport in bulk according to IMO instruments

No data available

#### Special precautions for user

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

Labels: 3  
 Special Provisions: B1, B52, IB3, T2, TP1  
 Packaging – Exceptions: 150  
 Packaging – Non-bulk: 173  
 Packaging – Bulk: 242  
 Quantity limitations – Passenger aircraft / rail: 60 L  
 Quantity limitations – Cargo only: 220 L  
 Vessel stowage – Location: A  
 Vessel stowage – Other:

##### Sea transport (IMDG)

Proper shipping name: Not restricted  
 Marine pollutant: no

##### Air transport (IATA)

Proper shipping name: Not restricted



## 15. Regulatory information

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

**Product:** Import Certification, Positive Certification:  
All chemical substances in this product comply with all applicable rules or orders under TSCA and there isn't a chemical substance offered for entry in violation of TSCA or any applicable rule or order thereunder.

**Methanol:** Clean Air Act:  
CAA Hazardous Air Pollutants: yes  
CAA SOCM Chemical: yes

Other Environmental Laws:  
CERCLA: RQ 5000 lbs.  
SARA Title III, Section 313, Toxic Release: NPFAS; De Minimis <=1.0 %;  
Thresholds 25000/10000 lbs

NIOSH Recommendations:  
Occupational Health Guideline: 0397

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

**Methanol:** California Proposition 65:  
developmental

New York Right-To-Know: listed

### Further regulations, limitations and legal requirements

No data available

## 16. Other information

**Text for labeling:** Contains N-(3-(Trimethoxysilyl)propyl)ethylenediamine: May produce an allergic reaction.  
With exposure to moisture, product will release methanol.  
Safety data sheet available on request.

**Revision date:** 11/28/2025

**Date of first version:** 10/16/2013

**Reason of change:** General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

**Hazard rating systems:** NFPA Hazard Rating:  
Health: 1 (Slight)  
Fire: 2 (Moderate)  
Reactivity: 0 (Minimal)



HMIS Version III Rating:  
Health: 1 (Slight)  
Flammability: 2 (Moderate)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	2
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  
 EC50: Effective Concentration 50%  
 EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
 EN: European Standard  
 EQ: Excepted quantities  
 Eye Damage: Eye damage  
 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  
 IC50: Inhibition Concentration 50%  
 IMDG Code: International Maritime Dangerous Goods Code  
 IMO: International Maritime Organization  
 LC50: Median lethal concentration  
 LD50: Lethal dose 50%  
 LEL: Lower Explosion Limit  
 log P(o/w): Partition coefficient: octanol/water  
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
 OSHA: Occupational Safety and Health Administration  
 PBT: Persistent, bioaccumulative and toxic  
 PNEC: Predicted no-effect concentration  
 Sensitization - skin: Skin sensitisation  
 TRGS: Technical Rules for Hazardous Substances  
 UN: United Nations  
 vPvB: Very persistent and very bioaccumulative

### 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.