

636W46 - Loctite 242

Material number 636W46

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1. Product and company identification**Product identifier**

Trade name: 636W46 - Loctite 242

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

General use: Anaerobe sealing agent, Screw Locking Agent,
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
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: blue

Odor: characteristic

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A;
Specific Target Organ Toxicity (Single Exposure) - Category 3;

Hazard symbols:



Signal word:

Warning

Hazard statements:

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary statements:

- Avoid breathing vapors.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store in a well-ventilated place. Keep container tightly closed.

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

Skin that has already been damaged (e.g. scratches, small cracks, micro-laceration, strong dehydration due to solvents), long-term, direct contact with the product may cause sensitization.

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Anaerobe sealing agent on the basis of polyethylene glycol dimethacrylate.

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 80-15-9	Cumene hydroperoxide	1 - 3 %	Organic Peroxide - Category E. Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 3. Skin Corrosion - Category 1B. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 98-82-8	Cumene	0.1 - 1 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.

4. First aid measures

- General information: First aider: Pay attention to self-protection!
- In case of inhalation: Move victim to fresh air. If you feel unwell, seek medical advice.
- Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Seek medical treatment in case of troubles.
- 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: Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Consult physician.

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Most important symptoms/effects, acute and delayed

The following symptoms may occur: Gastric and intestinal problems
Skin that has already been damaged (e.g. scratches, small cracks, micro-laceration, strong dehydration due to solvents), long-term, direct contact with the product may cause sensitization.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

> 212 °F

Auto-ignition temperature: No data available

Suitable extinguishing media:

Extinguishing powder, foam, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Emits toxic fumes under fire conditions.

In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Avoid contact with skin and eyes.

Provide adequate ventilation.

Wear appropriate protective equipment.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

Methods for clean-up:

Smaller amounts:

Collect spilled material using paper towels and dispose.

Large amounts:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Special waste. Final cleaning: Remove residues with soap and water.

7. Handling and storage**Handling**

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Avoid contact with skin and eyes.

Specific use(s)

Anaerobe sealing agent, Screw Locking Agent For orthopedic procedures.

Storage

Requirements for storerooms and containers:

- Keep only in the original container.
- storage temperature: 8°C - 21°C.
- Do not return unused portions of product to original container.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
98-82-8	Cumene	USA: ACGIH: TWA	246 mg/m ³ ; 50 ppm
		USA: NIOSH: TWA	245 mg/m ³ ; 50 ppm
		USA: OSHA: TWA	245 mg/m ³ ; 50 ppm

Engineering controls

- Provide adequate ventilation.
- 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: Wear suitable protective clothing.
 Recommendation:
 Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
 Glove material: Nitrile rubber.
 Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection: Use only in well-ventilated areas.
- General hygiene considerations:
 When using do not eat, drink or smoke.
 Avoid contact with skin and eyes.
 Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

- Appearance: Form: liquid
Color: blue
- Odor: characteristic
- Odor threshold: No data available
- pH value: at 71.6 °F: 3 - 6
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point/flash point range: > 212 °F
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available

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Vapor pressure:	at 77 °F: <= 0.1 hPa (DIN 51616)
Vapor density:	No data available
Density:	at 77 °F: 1.08 g/mL (DIN 51757)
Solubility:	soluble in acetone
Water solubility:	immiscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity:	refer to 10.3
Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions	In case of a lack of air and/or the existence of metal, polymerization may occur. Product is sufficiently stabilized to ensure that, in normal use, premature polymerization does not occur.
Conditions to avoid:	Keep away from heat.
Incompatible materials:	Peroxides, strong reducing agents. Reacts with strong oxidizing agents.
Hazardous decomposition products:	In case of fire may be liberated: Nitrogen oxides (NO _x), 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: Skin Irritation - Category 2 = Causes skin irritation.
- 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): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

Symptoms

Skin that has already been damaged (e.g. scratches, small cracks, micro-laceration, strong dehydration due to solvents), long-term, direct contact with the product may cause sensitization.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

30.24 g/L

General information:

Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
 Handle contaminated packages in the same way as the substance itself.

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

Cumene hydroperoxide: TSCA Inventory: listed
 TSCA HPVC: not listed
 Clean Air Act:
 SOCMI Chemical: yes
 Other Environmental Laws:
 CERCLA: RQ 10 lbs.
 RCRA Hazardous Wastes: Code U096
 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
 OSHA Process Safety Management: Threshold 5000 lbs.

Cumene: TSCA Inventory: listed
 TSCA HPVC: not listed
 Clean Air Act:
 Hazardous Air Pollutants: Code XOY
 SOCMI Chemical: yes
 Other Environmental Laws:
 CERCLA: RQ 5000 lbs.
 RCRA Hazardous Wastes: Code U055
 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
 NIOSH Recommendations:
 Occupational Health Guideline: 0159*

National regulations - U.S. State Regulations

Cumene hydroperoxide: California Proposition 65 code: -
 Delaware Air Quality Management List:
 DRQ: 10 - RQ State: Federal Regulations Apply
 Massachusetts Haz. Substance codes: 5,6 F8 F9
 New Jersey Extraordinarily Hazardous Substances:
 NJ Threshold: 2500 - NJ Group: I - NJ Table: I Part D - NJ Basis: NFPA 325
 New Jersey RTK Hazardous Substance:
 DOT: 2116 - Sub No.: 0543 - TPQ: -
 New York List of Hazardous Substances:
 RQ-Air: 10 - RQ-Land: 10 - Note: No Note Associated with this chemical.
 Pennsylvania Haz. Substance code: E

Cumene: California Proposition 65 code: -
 Delaware Air Quality Management List:
 DRQ: 5000 - RQ State: Federal Regulations Apply
 Idaho Air Pollutant List:
 Title 585: AAC: 12.25 - EL: 16.3 - OEL: 245 - Title 586: -
 Main Hazardous Air Pollutants:
 Me 2005: HAP - Hap Rpt: 2000
 Massachusetts Haz. Substance codes: 2,4,5 F8 F9
 Minnesota Haz. Substance:
 Codes: AO - Ratings: - - Status: Air Pollutant Title III. TRI.
 New Jersey RTK Hazardous Substance:
 DOT: 1928 - Sub No.: 0542 - TPQ: -
 New York List of Hazardous Substances:
 RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.
 Pennsylvania Haz. Substance code: E
 Washington Air Contaminant:
 TWA: 50 ppm - 245 mg
 Protective measures should be taken to prevent or reduce skin absorption.
 California Proposition 65: cancer
 Rhode Island HSL: listed

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains 1 - 3 % Cumene hydroperoxide, 0.1 - 1 % Cumene. 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: 2/24/2005



SAFETY DATA SHEET

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

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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.