

**636N10 - OTTO BOCK Contact
Adhesive**

Material number 636N10

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

Trade name: 636N10 - OTTO BOCK Contact Adhesive

Recommended use and restrictions on useGeneral use: Adhesive for orthopedic procedures.
For use in industrial installations and professional treatment only.**Initial supplier identifier**

Company name: Otto Bock HealthCare Canada Ltd.

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Postal Code, city: Burlington, ON L7L 5N5, CA
Canada

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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 phone number****COLLECT, Telephone: (613) 996-6666****Transport:****CONSULTANK Lutz Harder GmbH (Contract QUALI003)****Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)****2. Hazards identification****Emergency overview**

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Color: white

Odor: weak amine odor

Classification: This material is classified as not hazardous.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS in Canada.

Hazards not otherwise classified

Vapors irritate eyes, mucous membranes and respiratory system.

Higher doses may lead to a narcotic effect. Danger of metabolic acidosis.

see section 11: Toxicological information

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3. Composition / Information on ingredients

Chemical characterisation: Various copolymerisates, resins, stabilisers, emulsifiers: dispersion in water (40-60%)

4. First aid measures

In case of inhalation: Provide fresh air. Put victim at rest.
Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with plenty of water.
Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Do NOT induce vomiting. Rinse mouth.
Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

Higher doses may lead to a narcotic effect. Danger of metabolic acidosis.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:
> 100 °C (DIN 51 755)

Auto-ignition temperature: No data available

Suitable extinguishing media:
Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings. Water spray jet, foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:
Full water jet

Specific hazards arising from the chemical

Not combustible.
In the event of a fire, the following may be produced when the water evaporates: Toxic gases may form.

Special protective equipment and precautions for fire-fighters:
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Do not breathe fumes.

6. Accidental release measures

Personal precautions: Provide adequate ventilation.
Wear personal protection equipment.
Avoid contact with skin and eyes. Avoid breathing mist/vapors/spray.

Environmental precautions:
Do not allow to penetrate into soil, waterbodies or 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.

7. Handling and storage

Handling

Advices on safe handling: Provide good ventilation in the work area.
Avoid generation of vapors/aerosols.
Wear personal protection equipment.
Avoid contact with skin and eyes.

Storage

Requirements for storerooms and containers: storage temperature: 5 - 40 °C. Protect from frost and exposure to sun.
Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.
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.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber, Butyl caoutchouc (butyl rubber), fluoro rubber
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. 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 and eyes. Do not breathe vapor/aerosol.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Keep away from food, drink and animal feedingstuffs.
Take off immediately all contaminated clothing.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Color: white
Odor:	weak amine odor
Odor threshold:	No data available
pH:	at 20 °C: 7
Melting point/freezing point:	coagulation <= -4 °C
Initial boiling point and boiling range:	100 °C (DIN 53 171)
Flash point/flash point range:	> 100 °C (DIN 51 755)
Evaporation rate:	No data available
Flammability:	not applicable
Explosion limits:	No data available
Vapor pressure:	at 20 °C: 23 hPa (DIN EN 12)
Vapor density:	No data available
Density:	at 20 °C: 1.02 g/mL (DIN 51757)
Water solubility:	at 20 °C: complete miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	at 20 °C: 1,000 mPa*s (DIN 53018)
Viscosity, kinematic:	<= 300 (flow time, 3mm)
Solid content:	55 %

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions. Not combustible.
Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	Protect from frost, heat and sunlight.
Incompatible materials:	None known
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	No data available

11. Toxicological information

Toxicological tests

Toxicological effects:

- Acute toxicity (oral): Based on available data, the classification criteria are not met.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
- Skin sensitisation: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.
- Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

Symptoms

Vapors irritate eyes, mucous membranes and respiratory system.
In case of inhalation:
Higher doses may lead to a narcotic effect. Danger of metabolic acidosis.

12. Ecological information

Ecotoxicity

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: Elimination from water is possible through precipitation or flocculation.

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight

General information:

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

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13. Disposal considerations

Product

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

Package

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

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

Environmental hazards

Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

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

No data available

National regulations - U.S. Federal Regulations

No data available

National regulations - U.S. State Regulations

No data available

16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
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
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
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
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
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WHMIS: Workplace Hazardous Materials Information System

Reason of change: General revision

Date of first version: 30/10/1994

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.