

1 Identification

Product identifier

Trade name: 636W28=B - Special Glue Part B

Recommended use and restrictions on use

General use: Adhesive for orthopedic procedures.
Reserved for industrial and professional use.

Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

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

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Email: info.canada@ottobock.com

Telephone: (800) 665-3327

Telefax: (800) 463-3659

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 telephone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2 Hazard identification

Classification

Skin Irritation 2

Causes skin irritation.

Eye Damage 1

Causes serious eye damage.

Sensitization - skin 1

May cause an allergic skin reaction.

Aquatic toxicity - chronic 2

Toxic to aquatic life with long lasting effects.

Information elements

Symbols:



Signal word:

Danger

Hazard statements:

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- Toxic to aquatic life with long lasting effects.

Precautionary statements:

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash hands and face thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves and eye protection.
- IF ON SKIN: Wash with plenty of water/soap.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER/doctor.
- Specific treatment (see 'First aid' on this label).
- If skin irritation occurs: Get medical advice/attention.
- If skin irritation or rash occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- Collect spillage.
- Dispose of contents/container to hazardous or special waste collection point.

Other hazards known to the supplier with respect to the product

Damages of health may occur with delay.
Special danger of slipping by leaking/spilling product.

3 Composition/Information on ingredients

Mixture

Chemical name: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 68154-62-1	Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction	< 50 %	Skin Irritation 2. Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 68154-62-1	Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine	< 20 %	Skin Irritation 2. Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	< 10 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Skin Corrosion 1B. Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - chronic 3.

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

Additional information: Contains silicon dioxide. The maximum workplace exposure limits are, where necessary, listed in section 8.

4 First-aid measures

Description of necessary first-aid measures

General information: If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Consult doctor afterwards.

In case of swallowing: Rinse mouth with water. Have victim drink large quantities of water, with active charcoal if possible.
Do not induce vomiting.
In case of vomiting, position victim on their side. Never give anything by mouth to an unconscious person. Immediately get medical attention.

In case of skin contact: Take off contaminated clothing and wash it before reuse.
After contact with skin, wash immediately with soap and plenty of water.
Immediately get medical attention.

In case of 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 seek the immediate attention of an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

Causes skin irritation.
May cause an allergic skin reaction. Causes severe skin burns and eye damage.
In case of inhalation: Mucous membrane irritation, cough, shortage of breath.
Other symptoms: Reddening, causes tears.
Damages of health may occur with delay.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.
Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media: Full water jet

Specific hazards arising from the product

May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Ammonia, nitrous fumes, aldehydes, ketone, nitrogen oxides (NOx), carbon monoxide and carbon dioxide

Special protective equipment and precautions for fire-fighters

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Do not allow fire water to penetrate into surface or ground water. Use fine water spray to cool endangered containers. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Provide adequate ventilation.

Avoid contact with the substance. Do not breathe mist/vapours/spray.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Keep unprotected people away.

Environmental precautions:

Do not allow to enter drains, surface waters, basements or pits. If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Place 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.

Avoid the formation of aerosol. Avoid contact with skin, eyes, and clothing.

Do not breathe mist/vapours/spray. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container dry, tightly closed and store at cool and aired place. Keep only in the original container.

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
636W28=B - Special Glue Part B		Canada: Alberta, OEL 8 hour	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: Alberta, OEL 8 hour	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: BC, OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: BC, OEL TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: Québec, VEMP	10 mg/m ³ (total dust)
		Canada: Québec, VEMP	3 mg/m ³ (total dust, respirable fraction)
		Canada: Alberta, OEL 8 hour	4.2 mg/m ³ ; 1 ppm (may be absorbed through the skin)
90640-67-8 Amines, polyethylenepoly -, triethylenetetram ine fraction		Canada: BC, OEL TWA	1 ppm (may be absorbed through the skin)
		Canada: Ontario, OEL TWA	3 mg/m ³ ; 0.5 ppm (may be absorbed through the skin)
		Canada: Québec, VEMP	4.2 mg/m ³ ; 1 ppm (may be absorbed through the skin)

Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use combination filter type K-P 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, eyes, and clothing. Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

Do not breathe mist/vapours/spray.

Keep away from food, drink and animal feedingstuffs.

When handling large quantities, supply emergency spray.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Form: Pasty Beige
Odour:	Amine odour
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	100 °C (Pensky-Martens, c.c.)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Water solubility:	at 20 °C: Insoluble
Partition coefficient — n-octanol/water:	at 20 °C: Amines, polyethylenepoly-, triethylenetetramine fraction -2.65 log P(o/w) (OECD 117) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Vapour pressure:	No data available
Density and/or relative density	at 20 °C: 0.88 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Additional information: dynamic viscosity: Thixotropic

10 Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	No data available
Incompatible materials:	No data available
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix calculated: > 2,000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation. Not corrosive (OECD 404)

Serious eye damage/irritation: Eye Damage 1 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Information about Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

OECD 471 (Ames test) = negative

OECD 476 = negative

OECD 487 = negative

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.

Symptoms

In case of inhalation:

Information about Triethylenetetramine: Mucous membrane irritation, cough, shortage of breath.

In case of ingestion: Risk of perforation in the oesophagus and stomach.

After contact with skin: Reddening. Danger of cutaneous absorption.

After eye contact: Reddening, causes tears.

12 Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Information about Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction:

Fish toxicity:
LC50 Danio rerio (zebrafish): 7.07 mg/L/96h (OECD 203)

Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 5.18 mg/L/48h (OECD 202)

Algae toxicity:
ErC50 Selenastrum capricornutum: 2.43 mg/L/72h (OECD 201)

Bacterial toxicity:
EC50 activated sludge: 421 mg/L/3h (OECD 209)

Information about Amines, polyethylenepoly-, triethylenetetramine fraction:

Fish toxicity: LC50 Pimephales promelas (fathead minnow): 330 mg/L/96 h.

Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 31.1 mg/L/48h (EG, C.2)

Daphnia toxicity: Chronic toxicity:
EC10 1.9 mg/L/21d (OECD 202)

Algae toxicity:
ErC50 Selenastrum capricornutum: 20 mg/L/72h (OECD 201)

Bacterial toxicity:
EC50 activated sludge: 800 mg/L/0.5 h (OECD 209)

Persistence and degradability

Further details: Information about Amines, polyethylenepoly-, triethylenetetramine fraction:

Biodegradation: 0 % / 162d (OECD 301D) Product is not readily biodegradable.

Chemical oxygen demand (COD): 1,940 mg/g

Bioaccumulative potential

Partition coefficient — n-octanol/water:

at 20 °C: Amines, polyethylenepoly-, triethylenetetramine fraction -2.65 log P(o/w) (OECD 117)

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

Mobility in soil

Information about Amines, polyethylenepoly-, triethylenetetramine fraction:

Koc 1589.4 - 5,012 (OECD 106)

Other adverse effects

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

13 Disposal considerations

Waste treatment methods

Product

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

Package

Recommendation: Dispose of waste according to applicable legislation. Do not re-use the empty container.

14 Transport information

UN number

TDG: UN3082

IMDG, IATA-DGR: UN 3082

UN proper shipping name

TDG, IMDG, IATA-DGR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction)

Transport hazard class

TDG: 9

IMDG: Class 9, Subrisk -

IATA-DGR: Class 9

Packing group

TDG, IMDG, IATA-DGR: III

Environmental hazards

Marine pollutant: yes



Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Special Provisions: 16, 99

Explosive limit and limited quantity index: 5 L

Marine pollutant: P

Sea transport (IMDG)

EmS: F-A, S-F
Special Provisions: 274 335 375 969
Limited quantities: 5 L
Excepted quantities: E1
Package - Instructions: P001, LP01
Package - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1, TP29
Stowage and handling: Category A.
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

Proper shipping name: UN 3082,
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction)
Hazard label: Miscellaneous & Environmentally hazardous
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions: A97 A158 A197 A215
Emergency Response Guide-Code (ERG): 9L

15 Regulatory information

National regulations - Canada

Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction: DSL: listed
Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine: DSL: listed
Silicon dioxide: DSL: listed
Polyethylene: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: Contains:
Reaction products of fatty acid dimers and trimers, C18 (unsaturated) alkyl and fatty acids, C18 (unsaturated) alkyl with amines, polyethylenepoly-, triethylenetetramine fraction
Amines, polyethylenepoly-, triethylenetetramine fraction

Revision date: 1/1/2026
Date of first version: 30/10/1994
Reason of change: Changes in section 14: IATA-DGR 2026

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
ATEmix: Acute Toxicity Estimate of mixture
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
DSL: Domestic Substances List
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
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
LC50: Median lethal concentration
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Sensitization - skin: Skin sensitisation
Skin Corrosion: Skin corrosion
Skin Irritation: Skin irritation
TDG: Transportation of Dangerous Goods Regulation in Canada
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

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.