

1. Identification

Product identifier

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

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

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

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

Skin Irritation - Category 2	Causes skin irritation.
Eye Irritation - Category 2	Causes serious eye irritation.
Sensitization - skin - Category 1	May cause an allergic skin reaction.
Aquatic toxicity - chronic - Category 2	Toxic to aquatic life with long lasting effects.

Label elements

Symbols:



Signal word:

Warning

Hazard statements:

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

Precautionary statements:

- Avoid breathing dust/fume/gas/mist/vapors/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.
- Specific treatment (see 'First aid' on this label).
- If skin irritation or rash occurs: Get medical advice/attention.
- If eye irritation persists: 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

Special danger of slipping by leaking/spilling product.
People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this mixture.

3. Composition/information on ingredients

Mixtures

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)	50 - 70 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.

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

4. 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. Seek medical attention.

Following skin contact: Take off immediately all contaminated clothing and wash it before reuse. Wash with generous amount of water and soap. 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. Consult physician.
Never give anything by mouth to an unconscious person.
Rinse mouth and drink large quantities of water.

Most important symptoms/effects, acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Symptoms: Reddening, causes tears.

Information to physician

Treat symptomatically. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, dry chemical powder, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: halogenated compounds, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters

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

Additional information: Use fine water spray to extinguish surrounding fire and to cool endangered containers.
Do not allow water used to extinguish fire to enter drains, ground or waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment. Keep unprotected people away.
Avoid contact with skin, eyes, and clothing. Do not breathe vapor/aerosol. Provide adequate ventilation.
Take off immediately all contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to enter into surface water or drains. If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

Methods for clean-up: Keep upwind. Stop leak if safe to do so. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed 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 good ventilation and/or an exhaust system in the work area.
 Avoid contact with skin, eyes, and clothing. Do not breathe vapor/aerosol.
 Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.
 Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
 People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this mixture.

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:
 storage temperature 35.6 - 104 °F Keep only in the original container. Protect from direct sunlight. Store containers in upright position. Keep container tightly closed and dry.
 Keep in a cool place.

Hints on joint storage: Avoid contact with strong acids, strong bases and strong oxidizing agents.
 Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection

Appropriate engineering controls

Use only explosion-protected equipment/instruments.

Personal protection equipment (PPE)

Respiratory protection: Use respiratory protection whenever ventilation is inadequate.
 If necessary: Use filter type A-P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
 Glove material: butyl caoutchouc (butyl rubber), ethylene vinyl alcohol laminate (EVAL).
 Breakthrough time: >480 min. During splash contact: Nitrile rubber, Neoprene.
 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: Closed work clothing

General hygiene considerations:
 Avoid contact with skin, eyes, and clothing.
 Wash hands before breaks and after work.
 Do not breathe vapor/aerosol.
 Keep away from food, drink and animal feedingstuffs.
 Take off immediately all contaminated clothing and wash it before reuse.

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	liquid
Color:	white
Odor:	weakly aromatic
Odor threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 392 °F
Flammability:	No data available
Explosion limits:	No data available
Flash point/flash point range:	> 300.2 °F (c.c.)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	> 200°C
pH:	at 50%: 6
Dynamic viscosity:	at 77 °F: 20 - 40 mPa*s
Water solubility:	at 68 °F: insoluble
Partition coefficient: n-octanol/water:	3.242 log P(o/w) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapor pressure:	No data available
Density:	(Relative density) 1.4 g/mL
Vapor density:	No data available
Particle characteristics:	Not applicable

10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No particulary hazards known.
Conditions to avoid:	Protect from direct sunlight. Keep away from heat.
Incompatible materials:	Avoid contact with strong acids, strong bases and strong oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11. Toxicological information

Information on toxicological effects

Toxicological effects:	<p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Lack of data.</p> <p>Acute toxicity (dermal): Lack of data.</p> <p>Acute toxicity (inhalative): Lack of data.</p> <p>Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.</p> <p>Serious eye damage/irritation: Eye Irritation - Category 2 = Causes serious eye irritation.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.</p> <p>Germ cell mutagenicity/Genotoxicity: Inconclusive data.</p> <p>Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)</p> <p>OECD 471 (Ames test): positive</p> <p>OECD 478 (Rodent Dominant Lethal Test): negative</p> <p>Carcinogenicity: Based on available data, the classification criteria are not met.</p> <p>Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)</p> <p>OECD 453 (Rat, oral): negative</p> <p>OECD 453 (Mouse, dermal): negative</p> <p>Reproductive toxicity: Based on available data, the classification criteria are not met.</p> <p>Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)</p> <p>OECD 416 (Rat, oral): NOEL = 540 mg/kg</p> <p>OECD 414 (Rat, oral): NOEL > 540 mg/kg</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Lack of data.</p> <p>Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.</p> <p>Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)</p> <p>OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents): NOAEL = 50 mg/kg</p> <p>OECD 411: NOAEL = 100 mg/kg</p> <p>Aspiration hazard: Lack of data.</p>
Other information:	<p>Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700):</p> <p>LD50 Rat, dermal > 2,000 mg/kg</p> <p>LD50 Rat, oral > 2,000 mg/kg</p>

Symptoms

In case of ingestion: Mucous membrane irritation

After contact with skin: Reddening.

After eye contact: Reddening, causes tears.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
 Reaction product with Bisphenol-A-(epichlorohydrin) epoxy resin (molecular weight ≤ 700):
 Algae toxicity:
 EC50 algae: 9.4 mg/L/72h. (EPA CFR)
 Daphnia toxicity:
 EC50 Daphnia magna: 1.7 mg/L/48h. (OECD 202)
 NOEC Daphnia magna: 0.3 mg/L/21d. (OECD 211)
 Fish toxicity:
 LC50: 1.5 mg/L/96h. (OECD 203)

Persistence and degradability

Further details: Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700):
 Biodegradation: 5% (OECD 301 F).
 Product is not readily biodegradable.

Bioaccumulative potential

Bioconcentration factor (BCF):
 Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700): Bioconcentration factor (BCF): 31

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to enter ground water or storm 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.
 Non-contaminated packages may be recycled.

14. Transport information

UN number

DOT: UN3082
 IMDG, IATA-DGR: UN 3082

UN proper shipping name

DOT, IMDG, IATA-DGR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700))

Transport hazard class(es)

DOT: 9
IMDG: Class 9, Subrisk -
IATA-DGR: Class 9



Packing group

DOT, IMDG, IATA-DGR: III

Environmental hazards

Marine pollutant: yes

Transport in bulk according to IMO instruments

No data available

Special precautions for user

USA: Department of Transportation (DOT)

Labels: 9
Symbols: G
Special Provisions: 8, 146, 173, 335, 441, IB3, T4, TP1, TP29
Packaging – Exceptions: 155
Packaging – Non-bulk: 203
Packaging – Bulk: 241
Quantity limitations – Passenger aircraft / rail: No limit
Quantity limitations – Cargo only: No limit
Vessel stowage – Location: A

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 product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700))

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 - U.S. Federal Regulations

Product: SARA Title III - Section 313 Supplier
Notification: See chapter 2

Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700): TSCA Inventory: listed

National regulations - U.S. State Regulations

No data available

Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labeling: Contains 50 - 70 % Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700).
Contains Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)

Revision date: 1/1/2026

Date of first version: 10/6/1994

Reason of change: Changes in section 14: IATA-DGR 2026

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

Abbreviations and acronyms:

Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
 AS/NZS: Australian Standards/New Zealand Standards
 BCF: Bioconcentration Factor
 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 Irritation: Eye irritation
 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
 LD50: Lethal dose 50%
 log P(o/w): Partition coefficient: octanol/water
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 MFSU: Manufacture, formulation, supply and use
 NOAEL: No Observed Adverse Effect Level
 NOEC: No Observed Effect Concentration
 OECD: Organisation for Economic Co-operation and Development
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 Sensitization - skin: Skin sensitisation
 Skin Irritation: Skin irritation
 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.