

1. Product and company identification

Product identifier

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

This safety data sheet pertains to the following products:

636W28 = O.B. Spezial Klebstoff Kartusche A und B

636W28=0.050 = O.B. Spezial Klebstoff A und B 50ml

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
Postal 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 phone 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. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Color: white

Odor: weakly aromatic

Classification: Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.

Hazard 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 release to the environment.
- Wear protective gloves and eye protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If skin irritation or rash occurs: Get medical advice/attention.
- Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

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.
 see section 11: Toxicological information

3. Composition / Information on ingredients

Relevant ingredients:

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

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

Flash point/flash point range:

> 300.2 °F (c.c.)

Auto-ignition temperature: No data available

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:

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 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

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.

Storage

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

Engineering controls

Use only explosion-protected equipment/instruments.

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: Closed work clothing
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.

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.

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

Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Color: white

Odor: weakly aromatic

Odor threshold: No data available

pH: at 50%: 6

Melting point/freezing point: No data available

Initial boiling point and boiling range: > 392 °F

Flash point/flash point range: > 300.2 °F (c.c.)

Evaporation rate: No data available

Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	(Relative density) 1.4 g/mL
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.
Auto-ignition temperature:	No data available
Thermal decomposition:	> 200°C
Viscosity, dynamic:	at 77 °F: 20 - 40 mPa*s

10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No particular 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.
Thermal decomposition:	> 200°C

11. Toxicological information

Toxicological tests

<p>Toxicological effects:</p>	<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 2A = 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-(epichlorhydrin) 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-(epichlorhydrin) 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-(epichlorhydrin) 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-(epichlorhydrin) 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>
<p>Other information:</p>	<p>Information about Reaction product: Bisphenol-A-(epichlorhydrin) 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-(epichlorhydrin) 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)

Mobility in soil

No data available

Persistence and degradability

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

Additional ecological information

Volatile organic compounds (VOC):
 0 % by weight
 General information: Do not allow to enter ground water or storm drains.

13. Disposal considerations

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

ADR/RID, IMDG, IATA-DGR:
 UN 3082

UN proper shipping name

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

Transport hazard class(es)

ADR/RID: Class 9, Code: M6

IMDG: Class 9, Subrisk -

IATA-DGR: Class 9

Packing group

ADR/RID, IMDG, IATA-DGR:

III

Environmental hazards

Marine pollutant: yes

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

No data available

USA: Department of Transportation (DOT)

Identification number: UN3082

Proper shipping name: UN 3082,
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin
(number average molecular weight ≤ 700))

Hazard class or Division: 9

Packing Group: III

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)

UN number:	UN 3082
Proper shipping name::	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
Class or division, Subsidiary risk:	Class 9, Subrisk -
Packing Group:	III
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)

UN/ID number:	UN 3082
Proper shipping name::	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
Class or division, Subsidiary risk:	Class 9
Packing Group:	III
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

Bisphenol A epoxy resin (molecular-weight < 700): TSCA Inventory: listed

National regulations - U.S. State Regulations

No data available

National regulations - Canada

Bisphenol A epoxy resin (molecular-weight < 700): DSL: listed

National regulations - Great Britain

Hazchem-Code: •3Z

16. Other information

Text for labeling:

Contains 50 - 70 % Bisphenol A epoxy resin (molecular-weight < 700).
Contains Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

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:

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
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
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
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 14: IMDG 2025

Date of first version: 10/6/1994

Department issuing data sheet

Contact person: see section 1: Department responsible for information



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

636W28=A - Special Glue Part A

Material number 636W28=A

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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.