

1. Identification

Product identifier

Trade name: 636K49=B - SuperGlue Part B

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

General use: Activator for adhesives for orthopedic procedures

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

Flammable Liquid - Category 4

Combustible liquid.

Eye Irritation - Category 2A

Causes serious eye irritation.

Sensitization - skin - Category 1

May cause an allergic skin reaction.

Aquatic toxicity - acute - Category 1

Very toxic to aquatic life.

Aquatic toxicity - chronic - Category 1

Very toxic to aquatic life with long lasting effects.

Label elements

Symbols:



Signal word:

Warning

Hazard statements:

- Combustible liquid.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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/protective clothing/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.
- In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.
- Collect spillage.
- Store in a well-ventilated place.
- Dispose of contents/container to hazardous or special waste collection point.

Other hazards

Special danger of slipping by leaking/spilling product.

3. Composition/information on ingredients

Mixtures

Relevant ingredients:

| CAS No. | Designation | Concentration | Classification |
|----------------|---|---------------|--|
| CAS 94-36-0 | Dibenzoyl peroxide | < 14 % | Organic Peroxide - Category B. Eye Irritation - Category 2. Sensitization - skin - Category 1. Aquatic toxicity - acute - Category 1 (M-factor = 10). Aquatic toxicity - chronic - Category 1 (M-factor = 10). |
| CAS 25068-38-6 | Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700) | < 2.5 % | 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. |
| In case of inhalation: | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist. |
| Following skin contact: | After contact with skin, wash immediately with soap and 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: | Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention. |

Most important symptoms/effects, acute and delayed

Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

Information to physician

Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

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

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Combustible liquid. May form dangerous gases and vapors in case of fire. Danger of formation of toxic pyrolysis products. Furthermore, there may develop: Nitrogen oxides (NOx), hydrogen chloride, 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:

Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water. 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

Avoid breathing mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Eliminate all ignition sources if safe to do so.
If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.
Keep unprotected people away.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. In case of release, notify competent authorities.

Methods and material for containment and cleaning up

Methods for clean-up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Thoroughly clean surrounding area.

Never return spills in original containers for re-use.

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 breathing mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container.

Protect from direct sunlight. Protect from frost. Store containers in upright position.

Storage temperature: < 77 °F

Only approved packaging (e.g. in accordance with DOT) may be used.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Do not store together with: Strong acids, strong bases, oxidizing agents, reducing agents, ammonia, halogens, isocyanates, metals.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|---------|--------------------|-----------------|-------------------------|
| 94-36-0 | Dibenzoyl peroxide | USA: ACGIH: TWA | 5 mg/m ³ |
| | | USA: IDLH: TWA | 1,500 mg/m ³ |
| | | USA: NIOSH: TWA | 5 mg/m ³ |
| | | USA: OSHA: TWA | 5 mg/m ³ |

Appropriate engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment (PPE)

| | |
|---------------------------------|---|
| Respiratory protection: | In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Recommendation: Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. |
| Hand protection: | Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Butyl caoutchouc (butyl rubber), 0.7 mm, Breakthrough time: <240 min Butyl caoutchouc (butyl rubber), 0.35 mm, Breakthrough time: <30 min Nitrile rubber, 0.2 mm, splash guard 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 breathing mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. |

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

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|--|--|
| Physical state at 68 °F and 101.3 kPa | liquid |
| | Form: Paste |
| Color: | gray partially white or black |
| Odor: | Mild |
| Odor threshold: | No data available |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | > 302 °F |
| Flammability: | Combustible liquid. |
| Explosion limits: | LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined |
| Flash point/flash point range: | > 185 °F (c.c.) |
| Evaporation rate: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | > 230 °F |
| pH: | No data available |
| Dynamic viscosity: | 100,000 - 300,000 Pa*s (Brookfield) |
| Water solubility: | Insoluble |

| | |
|---|--|
| Partition coefficient: n-octanol/water: | 3.2 log P(o/w) (Dibenzoyl peroxide) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. |
| Vapor pressure: | No data available |
| Density: | at 73.4 °F: 1.13 - 1.65 g/mL |
| Vapor density: | No data available |
| Particle characteristics: | Not applicable |

Additional information

| | |
|----------------------------|--------------------------------|
| Oxidizing characteristics: | Available oxygen content: < 1% |
| Ignition temperature: | Not determined |

10. Stability and reactivity

| | |
|-------------------------------------|--|
| Reactivity: | Combustible liquid. |
| Chemical stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | No hazardous reaction when handled and stored according to provisions. |
| Conditions to avoid: | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from direct sunlight. Protect from frost. |
| Incompatible materials: | Strong acids, strong bases, oxidizing agents, reducing agent, ammonia, halogens, isocyanates, metals |
| Hazardous decomposition products: | No hazardous decomposition products when regulations for storage and handling are observed. |

11. Toxicological information

Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

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

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): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Dibenzoyl peroxide (CAS 94-36-0):

LD50 Mouse, oral: > 2,000 mg/kg (OECD 401), no mortality occurred

LC50 Rat, inhalative (dust): > 24.3 mg/L/4h (OECD 403), no mortality occurred

Carcinogenic effect:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Symptoms

In case of inhalation:

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

In case of ingestion: Irritation of mucuous membranes of digestive system possible.

After contact with skin:

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Information about Dibenzoyl peroxide (CAS 94-36-0):

Fish toxicity:

LC50 Oncorhynchus mykiss: 0.06 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 0.11 mg/L/48h (OECD 202)

EC10 Daphnia magna (Big water flea): 0.001 mg/L/21d (OECD 211)

Algae toxicity:

ErC50 Pseudokirchneriella subcapitata (green algae): 0.071 mg/L/72h (OECD 201)

NOEC Pseudokirchneriella subcapitata (green algae): 0.02 mg/L/72h (OECD 201)

Persistence and degradability

Further details: Abiotic degradation, water:

Information about Dibenzoyl peroxide (CAS 94-36-0): < 1 days (OECD 111, hydrolysis)

Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700) (CAS 25068-38-6): 3.58 - 7.1 days (half-life time)

Biodegradability:

Information about Dibenzoyl peroxide (CAS 94-36-0): 71 %/28 d (OECD 301 D), easily bio-degradable

Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700) (CAS 25068-38-6): 5 %/28 d (OECD 301 F), poorly biodegradable

Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient: n-octanol/water:

3.2 log P(o/w) (Dibenzoyl peroxide)

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

Mobility in soil

No data available

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: Dispose of waste according to applicable legislation. Do not allow to enter drains.

Package

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

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.
(Dibenzoyl peroxide)

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.
(Dibenzoyl peroxide)
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

Dibenzoyl peroxide:

TSCA Inventory: listed

Carcinogen Status: IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Other Environmental Laws:

SARA Title III, Section 313, Toxic Release: NPFAS;
De Minimis ≤1.0 %; Thresholds 25000/10000 lbs

NIOSH Recommendations:

Occupational Health Guideline: 0052

OSHA Process Safety Management: Threshold 7500 lbs.

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 < 14 % Dibenzoyl peroxide, < 2.5 % Reaction product:
Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700).

Revision date: 4/29/2026

Date of first version: 9/30/2015

Reason of change: Changes in section 2: Classification, labeling
Changes in section 3: Composition/information on ingredients
Changes in section 9: Physical and chemical properties
Changes in section 14: Transport information
General revision

Classification procedure: Physical hazards: on basis of test data
Health hazards, environmental hazards: calculation method

Hazard rating systems: NFPA Hazard Rating:
Health: 1 (Slight)
Fire: 2 (Moderate)
Reactivity: 1 (Slight)

HMIS Version III Rating:
Health: 1 (Slight)
Flammability: 2 (Moderate)
Physical Hazard: 1 (Slight)
Personal Protection: X = Consult your supervisor



| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 2 |
| PHYSICAL HAZARD | 1 |
| | X |

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
 Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
 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
 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
 Flammable Liquid: Flammable liquid
 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%
 LEL: Lower Explosion Limit
 log P(o/w): Partition coefficient: octanol/water
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 M-factor: Multiplication factor
 NOEC: No Observed Effect Concentration
 OECD: Organisation for Economic Co-operation and Development
 OEL: Occupational Exposure Limit Value
 Organic Peroxide: Organic peroxide
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 Sensitization - skin: Skin sensitisation
 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.