

1. Product and company identification

Product identifier

Trade name: 636K49=B - SuperGlue Part B

This safety data sheet pertains to the following products:

636K49 = SuperGlue

636K49=0.010 = SuperGlue 10 ml

Recommended use and restrictions on use

General use: Two-component glue
Component B

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

WWW: www.ottobock.ca

E-mail: 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 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

Form: Paste

Color: Varying, depends on coloring: white, black, gray

Odor: Mild

Classification: Flammable Liquid 4. Eye Irritation 2A. Sensitization - skin 1.

Hazard symbols:



Signal word:

Warning

Hazard statements: Combustible liquid.
May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary statements: Avoid breathing mist/vapors/spray.
Wash hands and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection.
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.

Regulatory status

This material is considered hazardous by the WHMIS in Canada.

Hazards not otherwise classified

Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 94-36-0	Dibenzoyl peroxide	< 14 %	Organic Peroxide B. Eye Irritation 2A. Sensitization - skin 1.
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	< 2.5 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2.

4. First aid measures

General information: If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. 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. Drink large quantities of water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

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

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

> 85 °C (c.c.)

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Heating may cause a fire. In case of fire may be liberated: Smoke, hydrocarbons, Nitrogen oxides (NO_x), Hydrogen chloride, 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:

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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:

Avoid breathing mist/vapors/spray. Avoid contact with the substance.

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

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

Methods for clean-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).

Beware of reignition. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
 Avoid contact with skin and eyes. Wear appropriate protective equipment.
 Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
 Avoid breathing mist/vapors/spray. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.
 Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:
 Keep away from sources of ignition - No smoking.
 Take precautionary measures against static discharges.
 Use only explosion-protected equipment/instruments. Do not weld.
 In partially filled containers explosive mixtures may form.

Storage

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 heat and direct sunlight.
 Store containers in upright position. Explosion protection required. Protect from frost.
 Storage temperature: < 25 °C

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.
 Do not store together with: Strong bases, strong acids, oxidizing agents, reducing agents, ammonia, halogens, acids (inorganic), isocyanates, metals

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
94-36-0	Dibenzoyl peroxide	Canada: OEL 8 hour	5 mg/m ³
		Canada: OEL TWA	5 mg/m ³
		Canada: VEMP	5 mg/m ³

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.
 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:

Butyl caoutchouc (butyl rubber), 0.7 mm, Breakthrough time: <240 min

Butyl caoutchouc (butyl rubber), 0.35 mm, Breakthrough time: <30 min

Neoprene/nitrile rubber, 0.2 mm, Breakthrough time: <10 min

Latex/nitrile rubber, 0.1 mm, Breakthrough time: <1 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

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.

General hygiene considerations:

Avoid contact with skin and eyes. Avoid breathing mist/vapors/spray. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Wash hands before breaks and after work.

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

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Form: Paste Color: Varying, depends on coloring: white, black, gray
Odor:	Mild
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 150 °C
Flash point/flash point range:	> 85 °C (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:	at 23 °C: 1.13 - 1.65 g/mL
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	3.242 log P(o/w) (Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Thermal decomposition:	110 °C

Viscosity, dynamic: 100 - 300 Pa*s (Brookfield)

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: Keep away from heat sources, sparks and open flames.
Protect from: UV-radiation/sunlight Protect from frost.

Incompatible materials: Strong bases, strong acids, oxidizing agents, reducing agent, ammonia, halogens, acids (inorganic), isocyanates, metals

Hazardous decomposition products: No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: 110 °C

11. Toxicological information

Toxicological tests

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: Lack of data.

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

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin 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: Lack of data.

Other information: Information about Dibenzoyl peroxide (CAS 94-36-0):
LD50 Mouse, oral: > 2,000 mg/kg (OECD 401)
LC50 Rat, inhalative (dust): > 24.3 mg/L/4h (OECD 403)

Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS 25068-38-6):
LD50 Rat, oral: 11,400 mg/kg
LD50 Rabbit, dermal: 22,800 mg/kg

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:

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

Fish toxicity:

LC50 *Poecilia reticulata*: 2 mg/L/96h

Daphnia toxicity:

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

Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS 25068-38-6):

Fish toxicity:

LC50 fish: 1.5 mg/L/96 (OECD 203)

Daphnia toxicity:

EC50 *Daphnia* sp.: 1.7 mg/L/48h (OECD 202)

NOEC *Daphnia magna* (Big water flea): 0.3 mg/L/21d (OECD 211)

Algae toxicity:

EC50 algae: 9.4 mg/L/72h

Bacterial toxicity:

IC50 bacteria: > 100 mg/L/3h

Mobility in soil

No data available

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-(epichlorhydrin) epoxy resin (number average molecular weight \leq 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-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS 25068-38-6): 5 %/28 d (OECD 301 F), poorly biodegradable

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight / 0 g/L

General information:

Do not allow to enter into ground-water, surface water or 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.
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

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

15. Regulatory information

National regulations - Canada

Dibenzoyl peroxide: DSL: listed

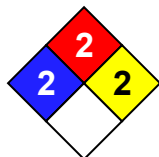
Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700): DSL: listed

16. Other information

Text for labeling:

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

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 2 (Moderate)

Reactivity: 2 (Moderate)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 2 (Moderate)

Physical Hazard: 2 (Moderate)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	2
	X

Classification procedure: Health hazards: calculation method

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
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
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
IC50: Inhibition Concentration 50%
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
NOEC: No Observed Effect Concentration
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
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UV: Ultraviolet
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Information System

Reason of change: Changes in section 2: classification, labeling
Changes in section 11: Toxicological information
Changes in section 12: Ecological information
General revision

Date of first version: 30/9/2015

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.