

617H45 - Catalyst for Silicone Gel

Material number 617H45

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1. Product and company identification**Product identifier**

Trade name: 617H45 - Catalyst for Silicone Gel

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

General use: Chemical base component for the production of plastics.
Catalyst.
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

Dept. 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****2. Hazards identification****Emergency overview**

Appearance: Form: liquid
Color: translucent

Odor: odorless

Classification: This material is classified as not hazardous.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Polydimethylsiloxane with functional groups and supplemental additives.

4. First aid measures

- In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.
- Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Seek medical treatment in case of troubles.
- After eye contact: Immediately flush eyes with plenty of flowing water for 5 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
- After swallowing: Seek medical treatment in case of troubles. Never give anything by mouth to an unconscious person. Let water be drunk in little sips (dilution effect). Do not induce vomiting.

Most important symptoms/effects, acute and delayed

No data available

Information to physician

Treat symptomatically.

5. Fire fighting measures

- Flash point/flash point range: > 482 °F (DIN 51755)
- Auto-ignition temperature: No data available
- Suitable extinguishing media: Dry chemical powder, alcohol resistant foam, Water mist, carbon dioxide, dry sand.
- Extinguishing media which must not be used for safety reasons: Full water jet

Specific hazards arising from the chemical

Carbon monoxide, carbon dioxide, Silicon dioxide

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone. Use a water fog to control vapors. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

- Personal precautions: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Wear appropriate protective equipment. Provide fresh air. Keep unprotected people away.
- Environmental precautions: Do not allow to penetrate into soil, waterbodies or drains.
- Methods for clean-up: Collect mechanically using liquid-binding material (sand, diatomaceous earth, universal binding agents). Dispose of waste in accordance with local, state, and federal regulations. Final cleaning. Dispose of waste according to applicable legislation.

Additional information: 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, eyes, and clothing. Wear appropriate protective equipment. When using do not eat, drink or smoke.

Precautions against fire and explosion:
Take standard precautions to prevent fire.

Specific use(s) Chemical base component for the production of plastics.

Storage

Requirements for storerooms and containers:
Store only in original containers, tightly closed and in well-ventilated area.
Keep container dry. Keep in a cool place.

Hints on joint storage: Reacts with alkalis, amines, strong acids, oxidizing agents with formation of hydrogen.

Further details: Stir well before removal or catalysation.

8. Exposure controls / personal protection

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
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: Nitrile rubber - Layer thickness: 0,11 mm.
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection is not necessary if room is well ventilated.

General hygiene considerations:
Avoid contact with skin, eyes, and clothing. Change contaminated clothing. When using do not smoke. Wash hands before breaks and after work. When using do not eat or drink. Have eye wash bottle or eye rinse ready at work place.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Form: liquid
Color: translucent

Odor: odorless

Odor threshold: No data available

pH value: approx. 7

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Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	> 482 °F (DIN 51755)
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 77 °F: 0.97 g/mL (DIN 51757)
Water solubility:	at 68 °F: almost insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	>392 °F
Viscosity, dynamic:	at 73.4 °F: 700 - 1300 mPa*s (Brookfield)
Ignition temperature:	> 842 °F (DIN 51794)

10. Stability and reactivity

Reactivity:	no data available
Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions	No dangerous reactions are known.
Conditions to avoid:	Protect from excessive heat.
Incompatible materials:	Reacts with alkalis, amines, strong acids, oxidizing agents with formation of hydrogen.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, Silicon dioxide Measurements taken at temperatures exceeding 302 °F have revealed that a small quantity of formaldehyde splits off through oxidative decomposition.
Thermal decomposition:	>392 °F

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): Based on available data, the classification criteria are not met. By analogy

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

Acute toxicity (inhalative): Lack of data.

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

Serious eye damage/irritation: Based on available data, the classification criteria are not met. By analogy

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met. By analogy

Skin sensitisation: Based on available data, the classification criteria are not met. By analogy

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.

12. Ecological information

Ecotoxicity

Aquatic toxicity: According to experience to date, toxicity to fish is not expected.

Effects in sewage plants: According to current data, no harmful effects are expected with release to sewage treatment facility.

Further details: Insoluble in water when in vulcanized state. Product is easily separated from water by filtration.
No indication of bioaccumulation potential.

Mobility in soil

No data available

Persistence and degradability

Further details: Product is not biodegradable.

Additional ecological information

Volatile organic compounds (VOC):
0 % by weight

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Empty carefully and completely, if possible.

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations

Substance/product listed in the following inventories: TSCA

National regulations - Canada

Substance/product listed in the following inventories: NDSL

National regulations - Great Britain

Hazchem-Code: -

16. Other information

This product is not suitable for the production of medical products, categories IIa and IIb. (Directive 93/42/EEC).

Hazard rating systems:



NFPA Hazard Rating:
Health: 0 (Minimal)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)

HMIS Version III Rating:
Health: 0 (Minimal)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: B

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0
B	



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

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Material number 617H45

Revision date: 3/22/2018

Version: 8

Language: en-US

Date of print: 5/24/2018

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Reason of change: Changes in section 1.3: Corporate headquarters

Date of first version: 10/15/1994

Department issuing data sheet

Contact person: see section 1: Dept. 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.