

1. Identification

Product identifier

Trade name: 85H71=B - Maxosil catalyst

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

General use: Reserved for industrial and professional use.
Catalyst for 85H71=A - Maxosil for the production of prostheses 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

2. Hazard identification

Classification of the substance or mixture

This material is classified as not hazardous.

Label elements

Symbols: not applicable
Hazard statements: not applicable
Precautionary statements: not applicable

3. Composition/information on ingredients

Mixtures

Chemical characterization: Mixture on the basis of Polysiloxane and Silicon dioxide.
Contains additive.

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 7440-06-4	Platinum	0.145 %	not classified

Additional information: The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

In case of inhalation:	In case of heating: In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. Seek medical treatment in case of troubles.
Following skin contact:	Remove mechanically with cloth or paper. Change contaminated clothing. Thoroughly wash skin with soap and water. Seek medical treatment in case of troubles.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Seek medical treatment in case of troubles.

Most important symptoms/effects, acute and delayed

After eye contact: Mild irritant

Information to physician

Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water spray jet, 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. In case of fire may be liberated: Silicon dioxide, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters

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

Additional information:

Seal off endangered area. Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapors. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing. Wear suitable protective clothing.
The use of protective glasses is generally recommended when handling chemicals.

Environmental precautions:

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

Methods and material for containment and cleaning up

Methods for clean-up: Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning: Fouled surfaces must be immediately cleaned with suitable solvents. (solvents: refer to section 9). Thoroughly clean surrounding area. Dispose of waste according to applicable legislation.

7. Handling and storage

Precautions for safe 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. Wash hands before breaks and after work.

Precautions against fire and explosion:

Take standard precautions to prevent fire.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed. Do not drop, drag or bang the container.

Hints on joint storage:

Keep away from oxidizing agents

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
14808-60-7	Silicon dioxide (Quartz (SiO ₂))	USA: ACGIH: TWA	0.025 mg/m ³ (respirable fraction)
		USA: IDLH: TWA	25 mg/m ³
			(respirable fraction, cristobalite/tridymite)
		USA: IDLH: TWA	50 mg/m ³
			(respirable fraction, quartz/tripoli)
		USA: NIOSH: TWA	0.05 mg/m ³ (respirable fraction)
7440-06-4	Platinum	USA: OSHA: TWA	10 mg/m ³ /‰ SiO ₂ + 2
			(respirable fraction)
		USA: OSHA: TWA	250 mppcf/‰ SiO ₂ +5 (fine dust)
		USA: OSHA: TWA	30 mg/m ³ /‰ SiO ₂ + 2
			(inhalable fraction)
		USA: ACGIH: TWA	1 mg/m ³
		USA: NIOSH: TWA	1 mg/m ³

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
7440-06-4	Platinum	USA: ACGIH-BEI, urine	0.01 µg/L	Platinum	end of exposure or end of shift

Additional information: Platinum and silicon dioxide is embedded in the product and not available as respirable dusts.

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment (PPE)

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

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Polyethylene/polypropylene-Breakthrough time: > 480 min.
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: Suitable protective clothing.

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

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: Form: liquid

Color: translucent

Odor: weak

Odor threshold: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flammability: No data available

Explosion limits: No data available

Flash point/flash point range: > 392 °F (c.c.)

Evaporation rate: No data available

Auto-ignition temperature: > 752 °F

Decomposition temperature: > 200 °C

pH: No data available

Dynamic viscosity: at 77 °F: approx. 10,000 mPa*s

Solubility:	slightly soluble in acetone partially soluble/dispersible in alcohol (ethanol), aliphatic hydrocarbons, aromatic hydrocarbons (toluene, xylene), chlorinated hydrocarbons
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	No data available
Density:	at 77 °F: approx. 1.10 g/mL
Vapor density:	No data available
Particle characteristics:	Not applicable

10. Stability and reactivity

Reactivity:	no data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions known.
Conditions to avoid:	Excessive heating, humidity
Incompatible materials:	Reacts with oxidizing agents
Hazardous decomposition products:	In case of fire may be liberated: Silicon dioxide, carbon monoxide and carbon dioxide.

11. Toxicological information

Information on toxicological effects

Acute toxicity:	LD50 Rat, oral: > 2,000 mg/kg LD50 Rat, percutan: > 2,000 mg/kg
Toxicological effects:	Acute toxicity (oral): Based on available data, the classification criteria are not met. Acute toxicity (dermal): Based on available data, the classification criteria are not met. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Lack of data. Serious eye damage/irritation: Lack of data. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Based on available data, the classification criteria are not met. Not known to cause sensitization. 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.

Symptoms

After eye contact: Mild irritant

12. Ecological information

Ecotoxicity

Further details: Bio-accumulation is not to be expected (log P(o/w) <1).

Persistence and degradability

Further details: Product is not biodegradable.
Siloxanes are removed from water by sedimentation or binding to sewage sludge.

Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

Mobility in soil

No data available

Other adverse effects

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

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Incinerate 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, IMDG, IATA-DGR: not applicable

UN proper shipping name

DOT, IMDG, IATA-DGR: Not restricted

Transport hazard class(es)

DOT, IMDG, IATA-DGR: not applicable

Packing group

DOT, IMDG, IATA-DGR: not applicable

Environmental hazards

Marine pollutant: no

Transport in bulk according to IMO instruments

No data available

Special precautions for user

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

Product: All ingredients of this product are listed on the TSCA inventory.

Silicon dioxide (Quartz (SiO₂)): Carcinogen Status: IARC Rating: Group 1

OSHA Carcinogen: not listed

NTP Rating: listed

NIOSH Recommendations:

Occupational Health Guideline: 0553

Platinum: NIOSH Recommendations:

Occupational Health Guideline: 0519*

National regulations - U.S. State Regulations

Silicon dioxide (Quartz (SiO₂)): California Proposition 65: cancer

Further regulations, limitations and legal requirements

No data available

16. Other information

Revision date: 12/17/2025

Date of first version: 11/6/2008

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

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: B

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
B	

Abbreviations and acronyms:

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

EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods

EN: European Standard

EQ: Excepted quantities

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

log P(o/w): Partition coefficient: octanol/water

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

TRGS: Technical Rules for Hazardous Substances

TSCA: Toxic Substance Control Act

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.