

1 Identification

Product identifier

Trade name: 85V1 - Retrasil

Recommended use and restrictions on use

General use: Retarder for Silicone-Vulcanizer 85H11 - Pastasil.
For orthopedic procedures.
Reserved for industrial and professional use.

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

Email: 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 telephone number

COLLECT, Telephone: (613) 996-6666

2 Hazard identification

Classification

This mixture is classified as not hazardous.

Information elements

Symbols: not applicable

Hazard statements: not applicable

Precautionary statements: not applicable

Other hazards known to the supplier with respect to the product

3 Composition/Information on ingredients

Mixture

Chemical name: Mixture on the basis of polysiloxane and silicon dioxide

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 78-27-3	1-Ethynylcyclohexanol	< 5 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Eye Irritation 2A.

The actual concentration or concentration range is withheld as a trade secret.

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

4 First-aid measures

Description of necessary first-aid measures

- In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.
- In case of swallowing: Never give anything by mouth to an unconscious person. Rinse mouth. Do not induce vomiting without medical assistance. Seek medical treatment in case of troubles.
- In case of skin contact: Remove mechanically with cloth or paper. Wash with generous amount of water and soap. In case of skin irritation, consult a physician.
- In case of 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.

Most important symptoms and effects, whether acute or delayed

After contact with skin: Mild irritant

After eye contact: Mild irritant

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Foam, Extinguishing powder, water spray jet, carbon dioxide

Unsuitable extinguishing media:

Full water jet

Specific hazards arising from the product

Combustible.

In case of fire may be liberated: silicon dioxide, carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

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

Additional information: Use water spray jet to knock down vapours. 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 appropriate protective equipment.
Provide fresh air.

Environmental precautions:

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

Methods and material for containment and cleaning 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.

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.
Store at room temperature.

Hints on joint storage:

Do not store with strong 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))	Canada: Alberta, OEL 8 hour	0.025 mg/m ³ (respirable fraction)
		Canada: BC, OEL TWA	0.025 mg/m ³
		Canada: Ontario, OEL TWA	0.1 mg/m ³ (respirable fraction)
		Canada: Québec, VEMP	0.05 mg/m ³ (respirable fraction)

Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

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

Hand protection: OSHA Standard - 29 CFR: 1910.138 Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Butyl caoutchouc (butyl rubber)-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: Wear suitable protective clothing.

General hygiene considerations:
Avoid contact with skin, eyes, and clothing.
When using do not eat, drink or smoke.
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

Physical state at 20 °C and 101.3 kPa	Form: liquid
Colour:	beige
Odour:	weak
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	95 °C (c.c.)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	> 200 °C
pH:	No data available
Dynamic viscosity:	at 25 °C: 15,000 mPa*s
Solubility:	slightly soluble in acetone, alcohol (ethanol) partially soluble/dispersible in aliphatic hydrocarbons, aromatic hydrocarbons (toluene, xylene), chlorinated hydrocarbons
Water solubility:	practically insoluble
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	No data available
Density and/or relative density	at 25 °C: 1.075 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

10 Stability and reactivity

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

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

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: Lack of data.
 Sensitisation to the respiratory tract: Lack of data.
 Skin sensitisation: Lack of data.
 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.

Acute toxicity:	LD50 Rat, oral: (1-Ethynylcyclohexanol) 590 mg/kg
	LD50 Rabbit, percutan: (1-Ethynylcyclohexanol) 980 mg/kg

Symptoms

After contact with skin: Mild irritant
 After eye contact: Mild irritant

12 Ecological information

Ecotoxicity

Further details:	No data available
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Persistence and degradability

Further details: Silicone-ingredient(s): not bio-degradable
1-Ethynylcyclohexanol: moderately/partially biodegradable (20-70%/28 d, OECD 302B)

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

TDG, IMDG, IATA-DGR: not applicable

UN proper shipping name

TDG, IMDG, IATA-DGR: Not restricted

Transport hazard class

TDG, IMDG, IATA-DGR: not applicable

Packing group

TDG, IMDG, IATA-DGR: not applicable

Environmental hazards

Marine pollutant: no

Special precautions in connection with transport or conveyance either within or outside the premises

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

Further information

No dangerous good in sense of these transport regulations.

15 Regulatory information

National regulations - Canada

Silicon dioxide (Quartz (SiO₂)): DSL: listed

1-Ethynylcyclohexanol: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Revision date: 17/12/2025
Date of first version: 13/6/2008
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)

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
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
DSL: Domestic Substances List
EC: European Community
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
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
TDG: Transportation of Dangerous Goods Regulation in Canada
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative

Department issuing data sheet

Contact person: see section 1: Department responsible for information



SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR) 2022

85V1 - Retrasil

Material number 085V1

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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.