

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : VariDur 10 Powder
Product code : 10-1027, 11-1031

1.2. Recommended use and restrictions on use

Recommended use : Laboratory chemicals
Restrictions on use : None known

1.3. Supplier

Buehler
41 Waukegan Rd
Lake Bluff, IL 60044
T 1-847-295-6500
custserv@buehler.com

1.4. Emergency telephone number

Emergency number : Global Access Code: 334545; Americas" +1 760 476 3962; Middle East/Africa: +1 760 476 3959; Asia Pacific +1 760 476 3960; Europe +1 760 476 3961

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.
Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H317 - May cause an allergic skin reaction.

Precautionary statements (GHS CA) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

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2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Dibenzoyl peroxide	Benzoyl peroxide / Benzoyl superoxide / Diphenylglyoxal peroxide / Peroxide, dibenzoyl / BPO / Benzoyl Peroxide	CAS-No.: 94-36-0	0.1 – 1	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317
Methyl methacrylate	Methacrylic acid, methyl ester / Methyl methacrylate monomer / Methyl methacrylate monomer, inhibited / 2-Propenoic acid, 2-methyl-, methyl ester / Methyl methacrylate monomer, stabilized / Methyl 2-methyl-2-propenoate / 2-(Methoxycarbonyl)-1-propene / Methyl 2-methylprop-2-enoate / Methyl 2-methylpropenoate / METHYL METHACRYLATE	CAS-No.: 80-62-6	0.1 – 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1A, H317 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

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First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
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4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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5.2. Unsuitable extinguishing media

Unsuitable extinguishing media	: Not determined.
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5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Do not handle until all safety precautions have been read and understood.
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6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep cool.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dibenzoyl peroxide (94-36-0)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWA)	5 mg/m ³
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
OEL STEL	10 mg/m ³
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
OEL STEL	10 mg/m ³
Canada (Ontario) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
OEL STEL	10 mg/m ³
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
OEL STEL	5 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m ³
ACGIH chemical category	Not Classifiable as a Human Carcinogen

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Methyl methacrylate (80-62-6)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	205 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	410 mg/m ³
OEL STEL [ppm]	100 ppm
Canada (Quebec) - Occupational Exposure Limits	
VECD (OEL STEL) [ppm]	100 ppm
VEMP (OEL TWA) [ppm]	50 ppm
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	410 mg/m ³
OEL TWA [ppm]	100 ppm
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (Ontario) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm

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Methyl methacrylate (80-62-6)	
OEL STEL [ppm]	100 ppm
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	410 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	510 mg/m ³
OEL STEL [ppm]	125 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL [ppm]	100 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves

Eye protection:
Chemical goggles or safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.
Colour : Various colours
Odour : Odourless
Odour threshold : No data available

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pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: 251 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Dibenzoyl peroxide (94-36-0)	
LD50 oral rat	7710 mg/kg
ATE CA (oral)	7710 mg/kg bodyweight
Methyl methacrylate (80-62-6)	
LD50 oral rat	8420 – 10000 mg/kg
LD50 dermal rabbit	5000 – 7500 mg/kg
LC50 Inhalation - Rat	29.8 mg/l/4h
ATE CA (oral)	8420 mg/kg bodyweight
ATE CA (Dermal)	5000 mg/kg bodyweight
ATE CA (vapours)	29.8 mg/l/4h
ATE CA (dust,mist)	29.8 mg/l/4h

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Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.

Methyl methacrylate (80-62-6)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.

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Viscosity, kinematic	Not applicable
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

Dibenzoyl peroxide (94-36-0)

LC50 - Fish [1]	0.0602 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
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Methyl methacrylate (80-62-6)

LC50 - Fish [1]	243 – 275 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	125.5 – 190.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	69 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	170 mg/l (Species: Pseudokirchneriella subcapitata)
Partition coefficient n-octanol/water (Log Pow)	0.7

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Methyl methacrylate (80-62-6)

Partition coefficient n-octanol/water (Log Pow)	0.7
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12.4. Mobility in soil

Methyl methacrylate (80-62-6)

Partition coefficient n-octanol/water (Log Pow)	0.7
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12.5. Other adverse effects

Ozone : Not classified.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

TDG
Transport hazard class(es) (TDG) : Not applicable

DOT
Transport hazard class(es) (DOT) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (TDG) : Not applicable
Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG
No data available

DOT
No data available

IMDG
No data available

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IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Methyl methacrylate polymer (9011-14-7)

Listed on the Canadian DSL (Domestic Substances List)

Dibenzoyl peroxide (94-36-0)

Listed on the Canadian DSL (Domestic Substances List)

Methyl methacrylate (80-62-6)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Methyl methacrylate polymer (9011-14-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Dibenzoyl peroxide (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Methyl methacrylate (80-62-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date : 05/25/2022
Revision date : 05/25/2022

Full text of H-statements:

H225	Highly flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Safety Data Sheet (SDS), Canada

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