

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 17-Aug-2016 Revision Date 13-Apr-2017 Revision Number 3

EGHS / English

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1. Product identifier

Product Name VariKleer Powder

**Product Code(s)** 20-3591, 20-3591-002, 20-3591-010

(M)SDS Number 1344870\_E

**Chemical name** 

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Laboratory Use Only.

**Uses advised against** No information available.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer ITW Test & Measurement GmbH

Manufacturer Address Boschstraße 10

73734 Esslingen am Neckar / GERMANY

www.buehler-met.de www.buehler.fr www.buehler.co.uk

**Phone number** +49 (0) 711 4904690-0

E-mail Address lab.eu@buehler.com

#### 1.4. Emergency telephone number

Global Access Code: 334545 Americas: +1 760 476 3962

Middle East/Africa: +1 760 476 3959 Asia Pacific

UK: +44 8 08 189 0979

Europe: +1 760 476 3961 Asia Pacific: +1 760 476 3960

## **Section 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

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#### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EUH210 - Safety data sheet available on request

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Polymethyl methacrylate	•	9011-14-7	90 - 100%	No data available	
Methyl methacrylate	Present	80-62-6	0 - 1%	Skin Irrit. 2 (H315)Liq. 2 (H225)SE 3(H335)Sens. 1 (H317)	
Benzoyl peroxide	Present	94-36-0	0 - 1%	Org. Perox. B (H241) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	

## Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH). Article 59)

<u> </u>	,	
Chemical name	CAS No	SVHC candidates
Polymethyl methacrylate	9011-14-7	-
Benzoyl peroxide	94-36-0	-
Methyl methacrylate	80-62-6	-

## **Section 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions

see a physician.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

upper eyelids. Consult a physician.



**Ingestion** Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

## **Section 5: FIRE FIGHTING MEASURES**

#### 5.1. Extinguishing media

surrounding environment.

Unsuitable extinguishing media No information available.

#### 5.2. Special hazards arising from the substance or mixture

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 5.3. Advice for firefighters

## Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** Should not be released into the environment. See Section 12 for additional

Ecological Information.

## 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

#### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling



**Advice on safe handling** Ensure adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

**Risk Management Methods** 

The information required is contained in this Material Safety Data Sheet.

(RMM)

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

## **Exposure Limits**

Chemical name	EU	United Kingdom	France	Spain	Germany
Methyl methacrylate	TWA: 50 ppm	STEL: 100 ppm	TWA: 50 ppm	STEL: 100 ppm	TWA: 50 ppm
80-62-6	STEL: 100 ppm	STEL: 416 mg/m <sup>3</sup>	TWA: 205 mg/m <sup>3</sup>	TWA: 50 ppm	TWA: 210 mg/m <sup>3</sup>
		TWA: 50 ppm	STEL: 100 ppm		
		TWA: 208 mg/m <sup>3</sup>	STEL: 410 mg/m <sup>3</sup>		
Benzoyl peroxide	-	STEL: 15 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
94-36-0		TWA: 5 mg/m <sup>3</sup>			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Methyl methacrylate	TWA: 50 ppm	STEL: 100 ppm	STEL: 410 mg/m <sup>3</sup>	TWA: 10 ppm	TWA: 25 ppm
80-62-6	STEL: 100 ppm	TWA: 50 ppm	TWA: 205 mg/m <sup>3</sup>	TWA: 42 mg/m <sup>3</sup>	TWA: 102 mg/m <sup>3</sup>
				STEL: 50 ppm	H*
				STEL: 210 mg/m <sup>3</sup>	
Benzoyl peroxide	-	TWA: 5 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
94-36-0				STEL: 10 mg/m <sup>3</sup>	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Methyl methacrylate	STEL 100 ppm	STEL: 100 ppm	STEL: 300 mg/m <sup>3</sup>	TWA: 25 ppm	TWA: 50 ppm
80-62-6	STEL 420 mg/m <sup>3</sup>	STEL: 420 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup>	STEL: 100 ppm
	TWA: 50 ppm	TWA: 50 ppm		H*	
	TWA: 210 mg/m <sup>3</sup>	TWA: 210 mg/m <sup>3</sup>		STEL: 100 ppm	
				STEL: 400 mg/m <sup>3</sup>	
Benzoyl peroxide	STEL 10 mg/m <sup>3</sup>	STEL: 5 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
94-36-0	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

#### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear suitable protective clothing.



**Environmental exposure** 

controls

No information available.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties

Physical state Powder(s)
Appearance Colorless
Odor Characteristic

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

No data available рΗ None known Melting / freezing point No data available None known Boiling point / boiling range No data available None known **Flash Point** >250°C None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative densityNo data availableNone known

Water Solubility Insoluble

Solubility(ies) No data available None known Partition coefficient: n-octanol/water No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Viscosity** No data available None known

#### 9.2. Other information

Softening PointNo information availableMolecular WeightNo information available

VOC Content (%) Not applicable

Liquid DensityNo information availableBulk DensityNo information availableParticle SizeNo information availableParticle Size DistributionNo information available

## Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

## 10.2. Chemical stability

Stable under normal conditions.

**Explosion Data** 

Sensitivity to Mechanical Impact None.



Sensitivity to Static Discharge

None.

## 10.3. Possibility of hazardous reactions

Possibility of Hazardous

None under normal processing.

Reactions

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

None under normal use conditions.

## Section 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

## Information on toxicological effects

**Symptoms** No information available.

#### Numerical measures of toxicity

## **Acute Toxicity**

## Unknown acute toxicity

99 % of the mixture consists of ingredient(s) of unknown toxicity

99 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

99 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl methacrylate	= 7900 mg/kg ( Rat ) = 7872	> 5 g/kg(Rabbit)	= 4632 ppm ( Rat ) 4 h
	mg/kg ( Rat )		
Benzoyl peroxide	= 7710 mg/kg ( Rat ) = 6400	-	-
	mg/kg(Rat)		



## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Serious eye damage/eye

irritation

No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## **Section 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

Ecotoxicity .

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water Flea)
Methyl methacrylate	96h EC50: = 170 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 243 - 275 mg/L (Pimephales promelas) 96h LC50: 125.5 - 190.7 mg/L (Pimephales promelas) 96h LC50: 153.9 - 341.8 mg/L (Lepomis macrochirus) 96h LC50: > 79 mg/L (Oncorhynchus mykiss) 96h LC50: 170 - 206 mg/L (Lepomis macrochirus) 96h LC50: 326.4 - 426.9 mg/L (Poecilia reticulata)		(Water Flea) 48h EC50: = 69 mg/L

## 12.2. Persistence and degradability

Persistence and Degradability No information available.



#### 12.3. Bioaccumulative potential

#### Bioaccumulation

Chemical name	Log Pow
Methyl methacrylate	0.7

#### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

Chemical name	PBT and vPvB assessment
Methyl methacrylate	
Benzoyl peroxide	Not applicable

### 12.6. Other adverse effects

Other adverse effects No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

**Contaminated packaging** No information available.

### Section 14: TRANSPORT INFORMATION

IMDG/IMONOT REGULATED14.1 UN-No.Not Regulated14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Marine PollutantNot applicable

**14.6 Special Provisions** None

14.7 Transport in bulk

No information available

according to Annex II of MARPOL and the IBC Code

RID
14.1 UN-No.
NOT REGULATED



14.6	Special	<b>Provisions</b>	None
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NOT REGULATED
NOT REGULATED
NOT REGULATED
NOT REGULATED
NOT REGULATED
Not applicable
None

<u>IATA</u>	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NON REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED
14.5 Environmental hazard	Not applicable
440.00001010000101000	Mana

**14.6 Special Provisions** None

# Section 14: TRANSPORT INFORMATION

IMDG/IMO 14.1 UN-No. 14.2 Proper Shipping Name 14.3 Hazard Class 14.4 Packing Group 14.5 Marine Pollutant 14.6 Special Provisions 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	NOT REGULATED Not Regulated NOT REGULATED NOT REGULATED NOT REGULATED Not applicable None No information available
RID 14.1 UN-No. 14.2 Proper Shipping Name 14.3 Hazard Class 14.4 Packing Group 14.5 Environmental hazard 14.6 Special Provisions	NOT REGULATED NOT REGULATED NOT REGULATED NOT REGULATED NOT REGULATED NOT REGULATED Not applicable None
ADR	NOT REGULATED

ADR	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

<u>IATA</u>	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NON REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED



14.5 Environmental hazard

Not applicable

14.6 Special Provisions

None

### Section 15: REGULATORY INFORMATION

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## National regulations

#### France

Occupational Illnesses (R-463-3, France)

01 1		T:0
Chemical name	French RG number	Title
Polymethyl methacrylate 9011-14-7	RG 65	-
Methyl methacrylate 80-62-6	RG 65,RG 82 RG 65	-
Benzoyl peroxide 94-36-0	RG 66	-

Water hazard class (WGK) Not dangerous

## **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### **Persistent Organic Pollutants**

Not applicable.

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

## **International Inventories**

**TSCA** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. DSL/NDSL Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL PICCS** Contact supplier for inventory compliance status. **AICS** Contact supplier for inventory compliance status.

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances



**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

No information available.

## **Section 16: OTHER INFORMATION**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

## Legend

SVHC: Substances of Very High Concern for Authorization:

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

#### Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date 01-Mar-2017

Revision Date 13-Apr-2017

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

#### **Disclaimer**

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**End of Safety Data Sheet** 



