

according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 1 of 14

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier VariKEM 200 (Powder) 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Resin for metallographic testing. Uses advised against Any non-intended use. 1.3. Details of the supplier of the safety data sheet Company name: Schmitz-Metallographie GmbH Street: Kaiserstraße 100 Place: D-52134 Herzogenrath 02407 / 568296-0 Telephone: Telefax: 02407 / 568296-9 E-mail: info@schmitz-metallographie.de Contact person: Herr Füllmann E-mail: info@schmitz-metallographie.de Internet: www.schmitz-metallographie.de 02407 / 568296-0 (Mo-Fr 9:00 - 16:00) 1.4. Emergency telephone number:

Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Sens. 1; H317 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

dibenzoyl peroxide; benzoyl peroxide methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate Warning

Signal word:

Pictograms:



Hazard statements

F F

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.



VariKEM 200 (Powder)				
Revision date: 14.06.2023	Product code:	Page 2 of 14		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P391	Collect spillage.			
P501	Dispose of contents/container to local/regional/national/international regulations.			

2.3. Other hazards

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)	-		
94-36-0	dibenzoyl peroxide; benzoyl peroxide			1 - <2,5 %	
	202-327-6				
	Org. Perox. B, Eye Irrit. 2, H400 H410	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	201-297-1	607-035-00-6	01-2119452498-28		
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335				

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

	FON	Observational in some	0			
CAS No	EC No	Chemical name	Quantity			
	Specific Conc	Limits, M-factors and ATE				
94-36-0	202-327-6	dibenzoyl peroxide; benzoyl peroxide	1 - <2,5 %			
	inhalation: LC50 = 24,3 mg/l (dusts or mists); oral: LD50 = >2000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10					
80-62-6	201-297-1	1-297-1 methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	inhalation: LC50 = 29,8 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = >5000 mg/kg					

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an



according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 3 of 14

ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Alcohol resistant foam. Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Avoid dust formation. Do not breathe dust.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 4 of 14

Advice on safe handling

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Usual measures for fire prevention. Dust clouds may present an explosion hazard.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Further information on handling

Avoid generation of dust.

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 20 °C Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
94-36-0	Benzoyl peroxid (Dibenzoyl peroxide)	-	5		TWA (8 h)	
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
94-36-0	dibenzoyl peroxide; benzoyl peroxide				
Worker DNE	L, long-term	inhalation	systemic	39 mg/m³	
Worker DNE	L, long-term	dermal	systemic	13,3 mg/kg bw/day	
Worker DNE	L, long-term	dermal	local	0,034 mg/cm ²	
Consumer D	NEL, long-term	oral	systemic	2 mg/kg bw/day	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; met	nyl 2-methylpropenoate			
Worker DNE	L, acute	inhalation	local	416 mg/m ³	
Consumer D	NEL, acute	inhalation	local	208 mg/m ³	
Consumer DNEL, long-term		oral	systemic	8,2 mg/kg bw/day	
Worker DNE	L, long-term	inhalation	systemic	348,4 mg/m ³	



0,000602 mg/l

0,000002 mg/l

0,013 mg/kg

0,001 mg/kg

0,003 mg/kg

0,35 mg/l

0,94 mg/l

according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)				
Revision date: 14.06.2023	Product code:		Page 5 of 14	
Worker DNEL, long-term	dermal	systemic	13,67 mg/kg bw/day	
Worker DNEL, long-term	dermal	local	1,5 mg/cm ²	
Worker DNEL, acute	dermal	local	1,5 mg/cm ²	
Worker DNEL, long-term	inhalation	local	208 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	74,3 mg/m³	
Consumer DNEL, long-term	inhalation	local	104 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	8,2 mg/kg bw/day	
Consumer DNEL, long-term	dermal	local	1,5 mg/cm ²	
Consumer DNEL, acute	dermal	local	1,5 mg/cm ²	
PNEC values				
CAS No Substance				
Environmental compartment			Value	
94-36-0 dibenzoyl peroxide; benzoyl perox	ide			
Freshwater			0,00002 mg/l	

Freshwater (intermittent releases)	0,94 mg/l
Marine water	0,094 mg/l
Freshwater sediment	10,2 mg/kg
Marine sediment	0,102 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	1,48 mg/kg

8.2. Exposure controls

Freshwater (intermittent releases)

Micro-organisms in sewage treatment plants (STP)

Marine water Freshwater sediment

Soil

80-62-6

Freshwater

Marine sediment

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

Dust must be exhausted directly at the point of origin.

Individual protection measures, such as personal protective equipment

Eye/face protection

Dust protection goggles.

Hand protection

Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of glove material: 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h



according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 6 of 14

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Generation/formation of dust

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Thermal hazards

Material handled at elevated temperature may cause thermal burns by contact with molten product.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

in mornation on basic physical and cher		
Physical state:	Powder, solid	
Colour:	green	
Odour:	odourless	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		100 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		not relevant
Upper explosion limits:		not relevant
Flash point:		>250 °C
Auto-ignition temperature:		>400 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not relevant
Water solubility:		almost immiscible
Solubility in other solvents		
not determined		
Dissolution rate:		not relevant
Partition coefficient n-octanol/water:	S	ECTION 12: Ecological information
Dispersion stability:		not relevant
Vapour pressure:		not determined
Density:		1,16 g/cm ³



according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)				
Revision date: 14.06.2023	Product code:	Page 7 of 14		
Bulk density:	not determined			
Relative vapour density:	not relevant			
Particle characteristics:	not determined			
9.2. Other information				
Information with regard to physical hazard classes Explosive properties Dust clouds may present an explosion hazard.				
Sustaining combustion:	Not sustaining combustion			
Self-ignition temperature Solid:	not determined			
Oxidizing properties	not determined			
none				
Other safety characteristics				
Evaporation rate:	not determined			
Solvent separation test:	not determined			
Solvent content:	not determined			
Solid content:	99.6%			
Sublimation point:	not determined			
Softening point:	not determined			
Pour point:	not determined			
Viscosity / dynamic:	not determined			
Flow time:	not determined			
Further Information				
No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 8 of 14

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
94-36-0	dibenzoyl peroxide; benzoyl peroxide					
	oral LD50 >2000 Mouse. ECHA Dossier OECD Guid					OECD Guideline 401
	inhalation (4 h) dust/mist	LC50	24,3 mg/l	Rat.	ECHA Dossier	OECD Guideline 403
80-62-6	methyl methacrylate;	methyl 2-meth	ylprop-2-enoa	ate; methyl 2-methylprope	noate	
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	WoE
	dermal LD50 > 5000 Rabbit ECHA Dossier OB					OECD Guideline 402
	inhalation (4 h) dust/mist	LC50	29,8 mg/l	Rat	ECHA Dossier	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (dibenzoyl peroxide; benzoyl peroxide; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. dibenzoyl peroxide; benzoyl peroxide: Chronic dermal toxicity/Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies) Species: Rat male. / female. ; Length of test: 2 years Result: NOAEL > 100 mg/kg / > 150 mg/kg; Literature information: ECHA Dossier Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) Species: Rat ; Results: NOAEL = 500 mg/kg; Literature information: ECHA Dossier Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Species: Rat Results: NOAEL = 300 mg/kg; Literature information: ECHA Dossier In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) positive (with metabolic activation). Result negative. ; Literature information: ECHA Dossier methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate: In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative. Literature information: ECHA Dossier Carcinogenicity: Species: Rat (Fischer 344) Method: OECD Guideline 451 (Carcinogenicity Studies) Result: negative. (NOAEC >= 2,05 mg/l); Literature information: ECHA Dossier Reproductive toxicity: Species: Rat (Wistar) Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) Result: NOAEL = 400 mg/kg; Literature information: ECHA Dossier Developmental toxicity/teratogenicity: Species: Rabbit.

according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 9 of 14

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Result: NOAEL = 450 mg/kg; Literature information: ECHA Dossier

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met. methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate: Chronic oral toxicity: Method: - ; Species: Rat (Wistar)

Results: NOAEL >= 2000 ppm; Literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
94-36-0	dibenzoyl peroxide; benzoyl peroxide						
	Acute fish toxicity	LC50 mg/l	0,06	96 h	Oncorhynchus mykiss	ECHA Dossier	EU Method C.1
	Acute algae toxicity	ErC50 mg/l	0,071	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 mg/l	0,11	48 h	Daphnia magna	ECHA Dossier	EU Method C.2
	Crustacea toxicity	NOEC mg/l	0,001	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
	Acute bacteria toxicity	35 g O2/g mg/l)	(EC50 35	0,5 h	activated sludge of a predominantly domestic sewag	ECHA Dossier	OECD Guideline 209
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate						
	Acute fish toxicity	LC50	>79 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier	EPA OTS 797.1400
	Acute algae toxicity	ErC50 mg/l	>110	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna	ECHA Dossier	EPA OTS 797.1300
	Fish toxicity	NOEC	9,4 mg/l	35 d	Brachydanio rerio	ECHA Dossier	
	Crustacea toxicity	NOEC	37 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	100		activated sludge	ECHA Dossier	OECD 301C

12.2. Persistence and degradability



VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 10 of 14

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation	-	-		
94-36-0	dibenzoyl peroxide; benzoyl peroxide				
	OECD 301D / EEC 92/69 annex V, C.4-E	68%	28	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	94%	14	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	dibenzoyl peroxide; benzoyl peroxide	3,2
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,32

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste



according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 11 of 14

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

SECTION 14: Transport information

Handle contaminated packages in the same way as the substance itself.

Land transport (ADR/RID) 14.1. UN number or ID number: UN 3077 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide; benzoyl peroxide) 14.3. Transport hazard class(es): 9 14.4. Packing group: 111 Hazard label: 9 Classification code: M7 Special Provisions: 274 335 375 601 Limited quantity: 5 kg Excepted quantity: E1 Transport category: 3 Hazard No: 90 Tunnel restriction code: Inland waterways transport (ADN) UN 3077 14.1. UN number or ID number: 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide; benzoyl peroxide) 14.3. Transport hazard class(es): 9 14.4. Packing group: Ш 9 Hazard label: Classification code: M7 **Special Provisions:** 274 335 375 601 Limited quantity: 5 kg Excepted quantity: E1 Marine transport (IMDG) UN 3077 14.1. UN number or ID number: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 14.2. UN proper shipping name: (dibenzoyl peroxide; benzoyl peroxide) 14.3. Transport hazard class(es): q 14.4. Packing group: 111 Hazard label: 9 Marine pollutant: YES



Revision date: 14.06.2023	VariKEM 200 (Powder) Product code:	Page 12 of
Special Provisions:	274, 335, 966, 967, 969	
Limited quantity: Excepted quantity:	5 kg E1	
EmS:	F-A, S-F	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:		
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide; benzoyl peroxide)	
14.3. Transport hazard class(es):	9	
14.4. Packing group: Hazard label:	 9 •	
	9	
Special Provisions:	A97 A158 A179 A197	
Limited quantity Passenger:	30 kg G	
Passenger LQ:	Y956	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	956	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	400 kg 956	
IATA-max. quantity - Cargo:	400 kg	
4.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	
Danger releasing substance:	dibenzoyl peroxide; benzoyl peroxide	
4.6. Special precautions for user		
refer to chapter 6 - 8		
4.7. Maritime transport in bulk according	to IMO instruments	
not relevant		
ECTION 15: Regulatory information		
	ulations/legislation specific for the substance or mixture	
EU regulatory information		
2010/75/EU (VOC):	not determined	
2004/42/EC (VOC):	not determined	
Information according to 2012/18/EU (SEVESO III):	E2 Hazardous to the Aquatic Environment	
Additional information		
	llation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878) is according to regulation (EC) No 1272/2008 [CLP]. io (mixture): -	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	enile
Water hazard class (D):	1 - slightly hazardous to water	
5.2. Chemical safety assessment		
For the following substances of this m	nixture a chemical safety assessment has been carried out:	
vision No: 2.0		lata: 12 07 2023



according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)

Revision date: 14.06.2023

Product code:

Page 13 of 14

dibenzoyl peroxide; benzoyl peroxide methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

SECTION 16: Other information

Changes

Rev. 1,0; Initial release: 20.05.2019 Rev. 2,0; 14.06.2023, Changes in chapter: 1 - 16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures **DNEL: Derived No Effect Level** d: day(s) EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect concentration NLP: No-Longer Polymers N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Regulation Concerning the International Transport of Dangerous Goods by Rail REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS: Technische Regeln für Gefahrstoffe **UN: United Nations** VOC: Volatile Organic Compounds

WGK: Water Hazard Class (Germany)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure	
Skin Sens. 1; H317	Calculation method	
Aquatic Chronic 2; H411	Calculation method	

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H315	Causes skin irritation.



according to Regulation (EC) No 1907/2006

VariKEM 200 (Powder)				
Revision date: 14.06.2023	Product code:	Page 14 of 14		
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H335	May cause respiratory irritation.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)