

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: JIS Z 7253:2012, Japan

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Revision Number 3

Japan / English

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name VariKleer Powder

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

(M)SDS Number 1344870_J

Other means of identification

Synonyms No information available

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory Use Only

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Buehler

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2. HAZARDS IDENTIFICATION

GHS Classification

Acute aquatic toxicity Category 3

Label elements



Hazard statements

H402 - Harmful to aquatic life

Precautionary Statements - Prevention

Avoid release to the environment

Precautionary Statements - Response

Not applicable

Precautionary Statements - Storage

Not applicable

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical name	Weight-%	ENCS - Japan Existing and New Chemical	ISHL No.	CAS-No
		Substances		
Polymethyl methacrylate	90 - 100%	(6)-524	Present	9011-14-7
Methyl methacrylate	0 - 1%	(2)-1036	Present	80-62-6
Benzoyl peroxide	0 - 1%	(3)-1349	Present	94-36-0

Pollutant Release and Transfer Registry (PRTR)

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed.

Chemical name	Weight-%	Class	Cabinet order number	Relevant substance, conversion factor
Methyl methacrylate 80-62-6	0 - 1%	Class I designated chemical substance	1-420	

Industrial Safety and Health Law

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

Chemical name	ISHL Notifiable Substances	Threshold Values (%)
Methyl methacrylate 80-62-6	ISHL Notifiable Substances	0.1
Benzoyl peroxide 94-36-0	ISHL Notifiable Substances	0.1

Poisonous and Deleterious Substances Control Law Not applicable

4. FIRST AID MEASURES

First aid measures

Inhalation Remove to fresh air.

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



Consult a physician.

Skin contact Wash skin with soap and water.

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

Symptoms No information available.

Note to physiciansTreat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

No information available.

Special Extinguishing Media Cool drums with water spray.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation.

For emergency respondersUse personal protection recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information.

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

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

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

7. HANDLING AND STORAGE

Handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

<u>Storage</u>

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines

Evaluation Standards -	Chemical name	Japan	ISHL Working Environmental Evaluation Standards -	ACGIH TLV
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		Administrative Control Levels	
Methyl methacrylate	TWA: 2 ppm	-	STEL: 100 ppm
80-62-6	TWA: 8.3 mg/m ³		TWA: 50 ppm
Benzoyl peroxide	-	-	TWA: 5 mg/m ³
94-36-0			_

Biological occupational exposure

limits

Not applicable

Engineering controls Showers

Eyewash stations Ventilation systems.

Personal protective equipment

Eye/face protectionNo special protective equipment required.

Skin and body protectionNo special protective equipment required.

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Powder(s)
Appearance Colorless
Odor Characteristic

ColorNo information availableOdor ThresholdNo information available

 Property
 Values
 Remarks Method

 pH
 No data available
 None known

 Melting / freezing point
 No data available
 None known

Boiling point / boiling range

No data available

None known

Sepaporation Rate

No data available

None known

Upper flammability limit No data available

Lower flammability limit

No data available

Vener pressure

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

Explosive properties

Oxidizing properties

No information available
No information available

Other Information

Softening Point No information available Molecular Weight No information available



VOC Content (%) Not applicable

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

10. STABILITY AND REACTIVITY

Reactivity No information available.

Stability Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

Possibility of hazardous reactions None under normal processing.

Incompatible materialsNone known based on information supplied.

Hazardous Decomposition Products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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.

Symptoms No information available.

Numerical measures of toxicity - Product Information

Unknown acute 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)

Numerical measures of toxicity - Component Information

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50
Methyl methacrylate	= 7900 mg/kg (Rat) = 7872	> 5 g/kg (Rabbit)	= 4632 ppm (Rat) 4 h
80-62-6	mg/kg (Rat)		
Benzoyl peroxide	= 7710 mg/kg (Rat) = 6400		
94-36-0	mg/kg(Rat)		

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

Skin corrosion/irritationNo information available.



Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity .

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Carcinogenicity	IARC
Polymethyl methacrylate		Group 3
9011-14-7		
Methyl methacrylate		Group 3
80-62-6		
Benzoyl peroxide		Group 3
94-36-0		·

Legend:

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target Organ Effects Skin.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Percentage for unknown hazards 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Ecotoxicity Harmful to aquatic life. .

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
			Microorganisms	Flea)
Methyl methacrylate	96h EC50: = 170 mg/L	96h LC50: 243 - 275	-	48h EC50: = 69 mg/L
	(Pseudokirchneriella	mg/L (Pimephales		
	subcapitata)	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)		



Persistence and Degradability

No information available.

Bioaccumulation

Component Information

Chemical name	Log Pow
Methyl methacrylate	0.7

Mobility in soil

No information available.

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused

products

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

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

IMDG NOT REGULATED

ADR NOT REGULATED

IATA NOT REGULATED NON REGULATED NON REGULATED

Japan

Hazard Class N/A

15. REGULATORY INFORMATION

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

National Regulations

<u>Japan</u>

Pollutant Release and Transfer Registry (PRTR)

See section 3 for more information

Industrial Safety and Health Law

ISHL Notifiable Substances

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

Fire Service Law:

Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met

Self-reactive materials, group 5, 2nd category, hazard rank II, 100 kg



Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)

Not applicable

Labor Standards Act

Occupational illnesses caused by chemical substances - Labor Standards Act article 75, Enforcement Ordinance article 35 and Notification Designating Elements and Compounds of Chemical Substances and Occupational Illnesses Table 1-2 item 4-1

Air Pollution Control Law

Air pollutants with regulated emissions standards, Air Pollution Control Act article 3 Volatile organic compound per Air Pollution Control Law article 2, paragraph 4

Hazardous air pollutants (HAPs) per Air Pollution Control Law article 2, paragraph 1, item 3 and Enforcement Order article 1

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

TSCA

DSL/NDSL

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

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION

Prepared By Product Stewardship

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Revision Note No information available

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value - Skin designation



C Carcinogen

Disclaimer

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End of Safety Data Sheet



