

## BYK-3941 P

Version 1.0  
SDS\_NZ

Revision Date: 22.01.2025

Date of last issue: -  
Print Date 19.02.2025**Section 1: Identification**

Product name : BYK-3941 P  
Product code : 000000000000134009

**Manufacturer or supplier's details**

Company : BYK-Chemie GmbH  
Address : Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com  
Emergency telephone number : 0800 446 881 (toll-free number, access from New Zealand only)  
+64 9 929 1483

**Importer**

Company : IMCD New Zealand Limited  
459 Great South Road  
Penrose, Auckland 1061  
New Zealand  
Phone: +64 9 582 0250

Use of the Substance/Mixture : Adhesion Promoter

**Section 2: Hazard identification****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

**Other hazards which do not result in classification**

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Section 3: Composition/information on ingredients**

Substance / Mixture : Mixture  
Chemical nature : Copolymer adsorbed on silicon dioxide

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Silicon dioxide	7631-86-9	>= 30 -< 50

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**Section 4: First-aid measures**

General advice	:	Do not leave the victim unattended.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	No information available.

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**Section 5: Fire-fighting measures**

Suitable extinguishing media	:	Water mist Foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Carbon oxides Silicon oxides
Specific extinguishing methods	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

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**Section 6: Accidental release measures**

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**Section 7: Handling and storage**

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Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	General industrial hygiene practice.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	:	No materials to be especially mentioned.
Further information on storage stability	:	Keep in a dry place. No decomposition if stored and applied as directed.

**Section 8: Exposure controls/personal protection****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon dioxide	7631-86-9	WES-TWA (Respirable dust)	0.025 mg/m <sup>3</sup>	NZ OEL
Further information: Known or presumed human carcinogen				

**Personal protective equipment**

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection	:	
Material	:	Nitrile rubber
Break through time	:	> 480 min
Remarks	:	Wear suitable gloves.
Eye protection	:	Safety glasses
Skin and body protection	:	Protective suit

**Section 9: Physical and chemical properties**

Appearance	:	powder
Colour	:	white
Odour	:	none
Odour Threshold	:	No data available
pH	:	6 (20 °C) Concentration: 10 % Method: Universal pH-value indicator
Melting point/ range	:	No data available
Initial boiling point	:	No data available

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Flash point	:	> 100 °C
		Method: 49 (Pensky-Martens)
Flash point	:	> 100 °C
		Method: 49 (Pensky-Martens)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.4051 g/cm <sup>3</sup> (20 °C, 1,013 hPa) Method: gas pycnometer
Bulk density	:	0.49 kg/m <sup>3</sup> Method: 34 (bulk density)
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Surface tension	:	No data available

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**Section 10: Stability and reactivity**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid	:	No data available

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Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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**Section 11: Toxicological information****Acute toxicity**

Not classified due to lack of data.

**Product:**

Acute oral toxicity : Remarks: No data available

**Components:****Silicon dioxide:**Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401**Skin corrosion/irritation**

Not classified due to lack of data.

**Product:**

Remarks : No data available

**Components:****Silicon dioxide:**Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes**Serious eye damage/eye irritation**

Not classified due to lack of data.

**Components:****Silicon dioxide:**Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : yes**Respiratory or skin sensitisation****Skin sensitisation**

Not classified due to lack of data.

**Respiratory sensitisation**

Not classified due to lack of data.

**Product:**

Remarks : No data available

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### Chronic toxicity

#### Germ cell mutagenicity

Not classified due to lack of data.

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Result: No data available

#### Carcinogenicity

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Reproductive toxicity

Not classified due to lack of data.

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

#### STOT - single exposure

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### STOT - repeated exposure

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Repeated dose toxicity

#### Product:

Remarks : No data available

#### Aspiration toxicity

Not classified due to lack of data.

#### Product:

No data available

#### Further information

#### Product:

Remarks : No data available

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**Section 12: Ecological information****Ecotoxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :  
aquatic invertebrates Remarks: No data available**Components:****Silicon dioxide:**Toxicity to algae/aquatic : ErC50 (Scenedesmus subspicatus): > 10,000 mg/l  
plants Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**Additional ecological : No data available  
information

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**Section 13: Disposal considerations****Disposal methods**Contaminated packaging : Empty containers should be taken to an approved waste  
handling site for recycling or disposal.

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**Section 14: Transport information****International Regulations****UNRTDG**UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable

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Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
Environmentally hazardous	: no

**IATA-DGR**

UN/ID No.	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
Packing instruction (cargo aircraft)	: Not applicable
Packing instruction (passenger aircraft)	: Not applicable

**IMDG-Code**

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

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

Not applicable for product as supplied.

**National Regulations****NZS 5433**

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
Hazchem Code	: Not applicable

**Special precautions for user**

Not applicable

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**Section 15: Regulatory information**
**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

**HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required.

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Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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**Section 16: Other information**

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**Full text of other abbreviations**

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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