

BYK-301Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026**Section 1: Identification**

Product name : BYK-301
Product code : 000000000000104211

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 : Alchemy Agencies Ltd
Level 2, 20 Centre St
Freemans Bay
Auckland 1010 NZ
Tel: +64(0)93770613

Use of the Substance/Mixture : Surface Additive

Section 2: Hazard identification**GHS Classification**

Flammable liquids : Category 4
Acute toxicity (Oral) : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2
Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms : 

Signal word : Warning

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026

Hazard statements	:	H227 Combustible liquid. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child.
Precautionary statements	:	<p>Prevention:</p> <p>P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</p> <p>Response:</p> <p>P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p>Storage:</p> <p>P403 Store in a well-ventilated place. P405 Store locked up.</p> <p>Disposal:</p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture
Chemical nature	:	Solution of a polyether modified polydimethylsiloxane

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-butoxyethanol	111-76-2	>= 30 -< 50

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026

octamethylcyclotetrasiloxane [D4]	556-67-2	>= 0.1 -< 0.25
-----------------------------------	----------	----------------

Section 4: First-aid measures

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. 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 skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Induce vomiting immediately and call a physician. 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. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child.
Notes to physician	:	No information available.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon oxides silicone compounds
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026**Section 6: Accidental release measures**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
- Conditions for safe storage : No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : 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
2-butoxyethanol	111-76-2	WES-TWA	10 ppm 49 mg/m ³	NZ OEL

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026

	Further information: Skin absorption			
		WES-STEL	20 ppm 98 mg/m ³	NZ OEL
	Further information: Skin absorption			
2-butoxyethanol		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g creatinine	ACGIH BEI

Personal protective equipment

- Filter type : Type A
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection
- Remarks : Wear suitable gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Section 9: Physical and chemical properties

- Appearance : liquid
- Colour : colourless
- Odour : not significant
- 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 : 168.00 °C
Method: derived
- Flash point : 63.00 °C
Method: 49 (Pensky-Martens)

BYK-301

Version 1.1

Date of last issue: 20.01.2025

SDS_NZ

Revision Date: 14.04.2026

Print Date 15.04.2026

Evaporation rate	:	No data available
Flammability (liquids)	:	Sustains combustion
Upper explosion limit / Upper flammability limit	:	10.60 %(V)
Lower explosion limit / Lower flammability limit	:	1.10 %(V)
Vapour pressure	:	< 1 hPa (20.00 °C) Method: derived
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.9700 g/cm ³ (20.00 °C, 1,013 hPa) Method: 4 (20°C oscillating U-tube)
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	> 200 °C Method: DIN 51 794/ DIN prEN 14 522
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available

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	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents Strong acids Strong bases
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information**Acute toxicity**

Harmful if swallowed.

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026**Product:**Acute oral toxicity : Acute toxicity estimate: 1,047 mg/kg
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method**Skin corrosion/irritation**

Causes skin irritation.

Product:Remarks : May irritate skin.
May cause skin irritation in susceptible persons.**Components:****2-butoxyethanol:**Species : Rabbit
Result : Skin irritation**Serious eye damage/eye irritation**

Causes serious eye irritation.

Product:

Remarks : Causes serious eye irritation.

Components:**2-butoxyethanol:**Species : Rabbit
Result : 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

Components:**2-butoxyethanol:**Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026

Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

octamethylcyclotetrasiloxane [D4]:

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

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

Suspected of damaging fertility or the unborn child.

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

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026**Aspiration toxicity**

Not classified due to lack of data.

Product:

No data available

Further information**Product:**

Remarks : No data available

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

Toxicity to fish : Remarks: No data available

Components:**2-butoxyethanol:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,550 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,840
plants : mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201Toxicity to fish (Chronic : NOEC: > 100 mg/l
toxicity) : Exposure time: 21 d
Method: OECD Test Guideline 204Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 100 mg/l
aquatic invertebrates : Exposure time: 21 d
(Chronic toxicity) : Test Type: semi-static test
Method: OECD Test Guideline 211**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026**Components:****2-butoxyethanol:**Biodegradability : aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301B**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

Components:**2-butoxyethanol:**Partition coefficient: n-
octanol/water : log Pow: 0.81 (25 °C)
pH: 7**Mobility in soil**

No data available

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

Section 13: Disposal considerations**Disposal methods**Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with
chemical or used container.
Send to a licensed waste management company.
Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

Section 14: Transport information**International Regulations****UNRTDG**UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Environmentally hazardous : no**IATA-DGR**

UN/ID No. : Not applicable

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026

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

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

HSR002490 Additives Process Chemicals and Raw Materials Combustible Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

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

BYK-301

Version 1.1
SDS_NZ

Revision Date: 14.04.2026

Date of last issue: 20.01.2025
Print Date 15.04.2026**Section 16: Other information**Revision Date : 14.04.2026
Date format : dd.mm.yyyy**Full text of other abbreviations**ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NZ OEL : New Zealand. Workplace Exposure Standards for
Atmospheric ContaminantsACGIH / TWA : 8-hour, time-weighted average
NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; 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 - Organisation 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; TECL - 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN