

## BYK-333

Version 2.1  
SDS\_NZ

Revision Date: 14.04.2026

Date of last issue: 24.03.2025  
Print Date 22.04.2026**Section 1: Identification**

Product name : BYK-333  
Product code : 000000000000105168

**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**

Carcinogenicity : Category 2  
Reproductive toxicity : Category 2

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read

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and understood.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

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

None known.

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

Substance / Mixture : Mixture  
Chemical nature : Polyether-modified polydimethylsiloxane

**Components**

| Chemical name              | CAS-No.   | Concentration (% w/w) |
|----------------------------|-----------|-----------------------|
| Xylene, mixture of isomers | 1330-20-7 | >= 0.5 -< 1           |
| ethylbenzene               | 100-41-4  | >= 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 eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : 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.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.

Notes to physician : No information available.

**Section 5: Fire-fighting measures**

Suitable extinguishing media : Water spray

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|   |   |   |
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|   |   | Dry powder<br>Foam<br>Carbon dioxide (CO <sub>2</sub> )   |
|   |   | Foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical   |
| Unsuitable extinguishing media                | : | High volume water jet<br><br>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   |
| Specific extinguishing methods                | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| 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 | : | Use personal protective equipment.<br>Use personal protective equipment.  |
| Environmental precautions   | : | Try to prevent the material from entering drains or water courses.<br><br>Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.   |

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**Section 7: Handling and storage**

|   |   |   |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.                   |
| Advice on safe handling                         | : | Do not breathe vapours/dust.<br>Avoid contact with skin and eyes. |

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|  |   | For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations.    |
| Hygiene measures                         | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.   |
| Conditions for safe storage              | : | Keep container tightly closed in a dry and well-ventilated place.<br>Observe label precautions.<br>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<br>(Form of exposure)   | Control parameters /<br>Permissible concentration | Basis  |
|----------------------------|-----------|--|---|--------|
| Xylene, mixture of isomers | 1330-20-7 | WES-TWA  | 50 ppm<br>217 mg/m <sup>3</sup>                   | NZ OEL |
|                            |           | Further information: Ototoxin, Exposure can also be estimated by biological monitoring |   |        |
| Xylene, mixture of isomers |           | TWA  | 20 ppm  | ACGIH  |
| ethylbenzene               | 100-41-4  | WES-TWA  | 20 ppm<br>88 mg/m <sup>3</sup>                    | NZ OEL |
|                            |           | Further information: Ototoxin, Skin absorption   |   |        |
|                            |           | WES-STEL   | 40 ppm<br>176 mg/m <sup>3</sup>                   | NZ OEL |
|                            |           | Further information: Ototoxin, Skin absorption   |   |        |
| ethylbenzene               |           | TWA  | 20 ppm  | ACGIH  |

**Biological occupational exposure limits**

| Components                 | CAS-No.   | Control parameters                             | Biological specimen | Sampling time  | Permissible concentration | Basis     |
|----------------------------|-----------|--|---------------------|--|---------------------------|-----------|
| Xylene, mixture of isomers | 1330-20-7 | Methylhippuric acid                            | Urine               | End of shift   | 1.5 g/l                   | NZ BEI    |
|                            |           | Methylhippuric acids                           | Urine               | End of shift (As soon as possible after exposure ceases) | 0.3 g/g creatinine        | ACGIH BEI |
| ethylbenzene               | 100-41-4  | Sum of mandelic acid and phenylglyoxylic acids | Urine               | End of exposure or end of shift                          | 0.25 g/g creatinine       | NZ BEI    |
|                            |           | Sum of   | Urine               | End of   | 150 mg/g                  | ACGIH     |

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|--|--|---|--|---|------------|-----|
|  |  | mandelic acid and phenyl glyoxylic acid |  | shift (As soon as possible after exposure ceases) | creatinine | BEI |
|--|--|---|--|---|------------|-----|

**Personal protective equipment**

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection  
Material : PVC disposable gloves  
Break through time : 120.00 min
- Remarks : Wear suitable gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- 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 : light brown
- Odour : not significant
- Odour Threshold : No data available
- pH : 6 (20 °C)  
Concentration: 10 %  
Method: Universal pH-value indicator
- Melting point/ range : < 0 °C  
Method: derived
- Initial boiling point : > 200.00 °C  
Method: derived
- Flash point : 101.00 °C  
Method: 49 (Pensky-Martens)
- Evaporation rate : No data available
- Flammability (liquids) : Sustains combustion
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available

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|  |   |  |
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| Vapour pressure                        | : | < 1 hPa (20 °C)<br>Method: derived   |
| Relative vapour density                | : | No data available  |
| Relative density                       | : | No data available  |
| Density                                | : | 1.0400 g/cm <sup>3</sup> (20.00 °C)<br>Method: 4 (20°C oscillating U-tube) |
| Bulk density                           | : | Not applicable   |
| 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<br>Method: DIN 51 794/ DIN prEN 14 522                            |
| Decomposition temperature              | : | No data available  |
| Viscosity                              | : |  |
| Viscosity, dynamic                     | : | 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 | : | No decomposition if stored and applied as directed. |
| Conditions to avoid                | : | No data available                                   |
| 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 : LD50 (Rat, male and female): > 8,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

**Components:****Xylene, mixture of isomers:**

Acute oral toxicity : LD50 (Rat): 4,300 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

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GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 4,200 mg/kg  
GLP: No information available.

### **Skin corrosion/irritation**

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

#### **Product:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

### **Serious eye damage/eye irritation**

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

#### **Product:**

Species : Rabbit  
Result : No eye irritation  
Assessment : 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

### **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**

Suspected of causing cancer.

#### **Product:**

Remarks : No data available

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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

**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:****Xylene, mixture of isomers:**Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 24 h

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|  |   | Test Type: Immobilization<br>Method: OECD Test Guideline 202  |
| Toxicity to algae/aquatic plants                                       | : | EC50 (Selenastrum capricornutum (green algae)): 2.2 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>GLP: yes  |
|  |   | NOEC (Pseudokirchneriella subcapitata (green algae)): 0.44 mg/l<br>Exposure time: 72 h<br>Test Type: Growth inhibition<br>Method: OECD Test Guideline 201 |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l<br>Exposure time: 56 d   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia sp. (water flea)): 1.17 mg/l<br>Exposure time: 7 d  |
|  |   | NOEC (Daphnia sp. (water flea)): 0.96 mg/l<br>Exposure time: 7 d  |

**Persistence and degradability****Product:**

|                  |   |   |
|------------------|---|---|
| Biodegradability | : | Result: Not readily biodegradable.<br>Biodegradation: 0 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301 |
|------------------|---|---|

**Components:****Xylene, mixture of isomers:**

|                  |   |   |
|------------------|---|---|
| Biodegradability | : | aerobic<br>Result: Readily biodegradable.<br>Method: OECD Test Guideline 301F<br>GLP: yes |
|------------------|---|---|

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

|                 |   |                            |
|-----------------|---|----------------------------|
| Bioaccumulation | : | Remarks: No data available |
|-----------------|---|----------------------------|

**Components:****Xylene, mixture of isomers:**

|                           |   |   |
|---------------------------|---|---|
| Bioaccumulation           | : | Species: Oncorhynchus mykiss (rainbow trout)<br>Bioconcentration factor (BCF): 25.9<br>Exposure time: 56 d<br>GLP: no |
| Partition coefficient: n- | : | Pow: 3.2 (20 °C)  |

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|               |       |
|---------------|-------|
| octanol/water | pH: 7 |
|---------------|-------|

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : No data available

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**Section 13: Disposal considerations****Disposal methods**

|                        |   |  |
|------------------------|---|--|
| Waste from residues    | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.  |

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**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 |
| 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 |

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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**

HSR002512 Additives Process Chemicals and Raw Materials Carcinogenic 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.

**Section 16: Other information**

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**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
NZ BEI : New Zealand. Biological Exposure Indices  
NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / 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

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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; 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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