

**BYK-W 972**Version 1.0  
SDS\_NZ

Revision Date: 20.01.2025

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

Product name : BYK-W 972  
Product code : 000000000000105212

**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 : Wetting & Dispersing Additive

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

Flammable liquids : Category 3  
Serious eye damage/eye irritation : Category 2  
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

**GHS label elements**

Hazard pictograms :  

Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

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## Precautionary statements

: **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing mist or vapours.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 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 : Solution of modified polyurethane

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
2-methoxy-1-methylethyl acetate	108-65-6	>= 50 -<= 100
n-butyl acetate	123-86-4	>= 10 -< 12.5

**Section 4: First-aid measures**

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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	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	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	:	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. Causes serious eye irritation. May cause drowsiness or dizziness.
Notes to physician	:	No information available.

**Section 5: Fire-fighting measures**

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) 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 Nitrogen oxides (NO <sub>x</sub> )
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.
Hazchem Code	:	3Y

**Section 6: Accidental release measures**

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas.
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- Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 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).

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**Section 7: Handling and storage**

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
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.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
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 container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
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.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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n-butyl acetate	123-86-4	WES-TWA	150 ppm 713 mg/m <sup>3</sup>	NZ OEL
		WES-STEL	200 ppm 950 mg/m <sup>3</sup>	NZ OEL
n-Butyl Acetate		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH

**Personal protective equipment**

Respiratory protection	:	In the case of vapour formation use a respirator with an approved filter.
Hand protection	:	
Material	:	butyl-rubber
Break through time	:	120.00 min
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	:	light yellow
Odour	:	ester-like
Odour Threshold	:	No data available
pH	:	5 (20 °C) Concentration: 1 % Method: Universal pH-value indicator
Melting point/freezing point	:	< 0 °C Method: derived
Initial boiling point and boiling range	:	124.00 °C Method: derived
Flash point	:	38.00 °C  Method: 48 (Abel-Pensky) DIN 51755
Flash point	:	38.00 °C  Method: 48 (Abel-Pensky) DIN 51755
Evaporation rate	:	No data available
Flammability (liquids)	:	Sustains combustion

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Upper explosion limit / Upper flammability limit	:	12.00 %(V)
Lower explosion limit / Lower flammability limit	:	1.20 %(V)
Vapour pressure	:	6 hPa (20.00 °C) Method: derived
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.0150 g/cm <sup>3</sup> (20.00 °C) Method: 4 (20°C oscillating U-tube)
Bulk density	:	Not applicable
Solubility(ies)	:	
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	> 200 °C Method: DIN 51794
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
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	:	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
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.

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Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

**Components:****2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

**n-butyl acetate:**

Acute oral toxicity : LD50 (Rat, male): > 10,000 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): > 21.1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 14,000 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation**

Not classified due to lack of data.

**Product:**

Remarks : No data available

**Components:****2-methoxy-1-methylethyl acetate:**

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

**n-butyl acetate:**

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

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Causes serious eye irritation.

**Product:**

Remarks : No data available

Remarks : Causes serious eye irritation.

**Components:****2-methoxy-1-methylethyl acetate:**Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : yes**n-butyl acetate:**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

**Components:****2-methoxy-1-methylethyl acetate:**Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes**n-butyl acetate:**Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.**Chronic toxicity****Germ cell mutagenicity**

Not classified due to lack of data.



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**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**

May cause drowsiness or dizziness.

**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 : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

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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:****2-methoxy-1-methylethyl acetate:**Toxicity to fish : LC50 (Fish): 100 - 180 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: noToxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): >  
plants 1,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: no**n-butyl acetate:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 44 mg/l  
aquatic invertebrates Exposure time: 48 hToxicity to algae/aquatic : ErC50 (Scenedesmus subspicatus): 675 mg/l  
plants Exposure time: 72 hToxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 23 mg/l  
aquatic invertebrates End point: Reproduction  
(Chronic toxicity) Exposure time: 21 d  
Method: OECD Test Guideline 211**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Components:****2-methoxy-1-methylethyl acetate:**Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

**n-butyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

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

Bioaccumulation : Remarks: No data available

**Components:****2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-  
octanol/water : log Pow: 1.2 (20 °C)  
pH: 6.8  
Method: OECD Test Guideline 117  
GLP: yes

**n-butyl acetate:**

Partition coefficient: n-  
octanol/water : log Pow: 2.3 (25 °C)  
pH: 7  
Method: OECD Test Guideline 117  
GLP: yes

**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.  
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.

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**Section 14: Transport information****International Regulations****UNRTDG**

UN number : UN 3272  
Proper shipping name : ESTERS, N.O.S.

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(1-Methoxy-2-propanol acetate, Butyl acetate)

Class	: 3
Packing group	: III
Labels	: 3
Environmentally hazardous	: no

**IATA-DGR**

UN/ID No.	: UN 3272
Proper shipping name	: Esters, n.o.s. (1-Methoxy-2-propanol acetate, Butyl acetate)
Class	: 3
Packing group	: III
Labels	: Flammable Liquids
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355

**IMDG-Code**

UN number	: UN 3272
Proper shipping name	: ESTERS, N.O.S. (1-Methoxy-2-propanol acetate, BUTYL ACETATE)
Class	: 3
Packing group	: III
Labels	: 3
EmS Code	: F-E, S-D
Marine pollutant	: no
Remarks	: IMDG Code segregation group - none

**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	: UN 3272
Proper shipping name	: ESTERS, N.O.S. (1-Methoxy-2-propanol acetate, Butyl acetate)
Class	: 3
Packing group	: III
Labels	: 3
Hazchem Code	: 3Y
Marine pollutant	: no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

HSR002495 Additives Process Chemicals and Raw Materials Flammable Group Standard

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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.

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**Section 16: Other information**

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**Full text of other abbreviations**

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

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
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 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;

# SAFETY DATA SHEET



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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