# Aperlan Range Aperlan Poka-Yoke Agent B



# Safety Data Sheet

#### Section 1. Identification of the material and the supplier

Product: Aperlan Poka-Yoke Agent B

Product Code: 41010057

Product Use: Additive. Restricted to professional users.

New Zealand Distributor: Getinge Australia (New Zealand Branch)

Address: 600 Great South Road

Building B, Level 2, Ellerslie, Auckland, 1051

New Zealand

Telephone: +64 9 272 9039

Emergency Telephone: +64 9 272 9039 or 0800 764 766 (National Poison

Centre)

Date of SDS Preparation: 26 April 2023

#### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

## **EPA Approval Code:**

Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2020 – HSR002491

# **Pictograms**



Signal Word: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Corrosive to metals Cat. 1	H290	May be corrosive to metals.
Skin corrosion Cat. 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P234	Keep only in original packaging.
P260	Do not breathe fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

Product Name: Aperlan Poka-Yoke Agent B SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

P280	Wear protective clothing as detailed in Section 8.
Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P301 +	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P330+P331	
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	clothing. Rinse skin with water/shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable

IF IN EYES: Rinse cautiously with water for several minutes. Remove

Storage Code	Storage Statement
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

contact lenses, if present and easy to do. Continue rinsing.

<b>Disposal Code</b>	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

# Section 3. Composition / Information on Ingredients

for breathing.

Ingredients	Wt%	CAS NUMBER.
Potassium hydroxide	<10	1310-58-3
Benzotriazole	<5	95-14-7

# Section 4. First Aid Measures

#### Routes of Exposure:

P304 + P340

P351+P338

P305 +

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/physician.

If on Skin Wash with plenty of soap and water. Take off contaminated clothing and

wash before re-use. Seek immediate medical attention.

If Swallowed Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth

of an unconscious person. Give small amounts of water to drink. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a

POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

#### Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Not applicable. **Inhalation:** Not applicable.

**Skin:** Causes severe skin burns. **Eye:** Causes serious eye damage.

Product Name: Aperlan Poka-Yoke Agent B SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

**Notes to Doctor:** Treat symptomatically. For specialist advice physicians should contact the

Poisons Information Service.

Section 5. Fire Fighting Measures
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Hazard Type	Non Flammable
Hazards from combustion products	Gives off hydrogen by reaction with metals. Risk of explosion.  No hazardous combustion products are known
Suitable Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.
Precautions for firefighters and special protective clothing	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Contaminated surfaces will be extremely slippery.
HAZCHEM CODE	2R

#### Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Ensure adequate ventilation. Avoid contact with skin and eyes. Increased risk of slipping in the presence of leaked / spilled product.

Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly. Flush with water. Dispose of according to Local Regulations detailed in Section 13.

## Section 7. Handling and Storage

After opening, use within: 2 months.

#### **Precautions for Handling:**

- Read carefully and follow all instructions.
- Keep only in original packaging.
- Do not breathe fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Handle and open container with care.
- Never return unused material to storage receptacle.
- Take off all contaminated clothing immediately.
- Keep away from food and drink.

#### **Precautions for Storage:**

- Keep out of reach of children.
- Store locked up.
- Store in corrosive resistant container with a resistant inner liner.
- Store at room temperature in the original container.
- Recommended storage temperature: 5 30°C.
- Do not store near acids.

## Section 8 Exposure Controls / Personal Protection

#### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL

Product Name: Aperlan Poka-Yoke Agent B SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Substance ppm mg/m³ ppm mg/m³

Potassium hydroxide [1310-58-3]

Ceiling 2

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13<sup>TH</sup> EDITION.

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

#### Potassium hydroxide

End Use	Exposure routes	Potential health effects	Value
Workers	Inhalation	Long-term local effects	1 mg/m3

#### Benzotriazole

End Use	Exposure routes	Potential health effects	Value
Workers	Skin contact	Long-term systemic effects	1.08 mg/kg
Workers	Inhalation	Long-term systemic effects	19 mg/m3

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

#### Benzotriazole

Environmental Compartment	Value
Fresh water	0.0194 mg/l
Marine water	0.0194 mg/l
Intermittent use/release	0.158 mg/l
Effects on waste water treatment plants	39.4 mg/kg
Fresh water sediment	0.00375 mg/kg
Marine sediment Soil	0.00375 mg/kg 0.003 mg/kg

#### **Engineering Controls**

Ensure adequate ventilation is available. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal Protection Equipment:**









Eyes	Safety glasses with side-shields conforming to EN166
	Face-shield
Hands	The selected protective gloves have to satisfy the specifications the standard EN 374 derived from it.  Remarks:
	Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm)
	Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm)
Skin	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: ·Chemical resistant apron ·Boots
Respiratory	Not required.

Product Name: Aperlan Poka-Yoke Agent B SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Thermal	Product contains small amounts of methyl alcohol (methanol) which is	
Hazards	flammable (The mixture is not flammable). Handle and store product away	
	from sources of heat and ignition (sparks, open flames, etc.).	
Hygiene	Wash hands before breaks and after work. Avoid contact with skin and eyes.	
Measures	When using do not eat or drink.	

# **Section 9** Physical and Chemical Properties

Appearance	Liquid
Colour	Light yellow
Odour	Odourless
Odour Threshold	Not available
pH @ 20°C	>13
<b>Boiling Point</b>	Approx 100°C
Melting Point	<-5°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
<b>Explosive Limits</b>	
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density @ 20°C	1.1 g/cm <sup>3</sup>
Water Solubility	In all proportions (20 °C)
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Self-Accelerating	Not available
decomposition	
temperature (SADT):	
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Gives off hydrogen by reaction with metals. Reaction with acids.
Conditions to Avoid	Protect from frost, heat and sunlight.
Incompatible Materials	Possible incompatibility with alkali sensitive materials. Acids.
<b>Hazardous Decomposition</b>	None
Products	

# Section 11 Toxicological Information

#### **Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye damage.
Skin	Causes severe skin burns.

# **Chronic Effects:**

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	

Product Name: Aperlan Poka-Yoke Agent B SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

**Acute Toxicity:** 

<b>Chemical Name</b>	Oral - LD50	Dermal - LD50	Inhalation - LC50
Product (Aperlan Poka-	>5000 mg/kg	>15000mg/kg	>5 mg/l
Yoke Agent B)			
Potassium hydroxide	365 mg/kg (rat)	-	-
	Method: OECD		
	Test Guideline 425		
Benzotriazole	560 mg/kg (Rat)	>2000 mg/kg (rabbit)	-
	Method: OECD		
	Test Guideline 423		

# Section 12. Ecotoxicological Information

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

## **Toxicity**

### **Components**

#### Potassium hydroxide

Biodegradability Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

#### Benzotriazole

Biodegradability Result: Not rapidly biodegradable

Exposure time: 28 d

Method: OECD Test Guideline 301D

### Persistence and degradability

#### Components

#### Potassium hydroxide

Bioaccumulation: Remarks: Does not bioaccumulate

#### Benzotriazole

Bioaccumulation: Bioconcentration factor (BCF): 4.14

Remarks: Accumulation in aquatic organisms is unlikely.

Partition coefficient: noctanol/ Pow: 1.34 (22.7 °C)

water Remarks: Due to the distribution coefficient noctanol/water, accumulation in

organisms is possible.

#### **Bioaccumulative potential**

# **Components**

#### Potassium hydroxide

Bioaccumulation: Remarks: Does not bioaccumulate

## Benzotriazole

Bioaccumulation: Bioconcentration factor (BCF): 4.14

Remarks: Accumulation in aquatic organisms is unlikely.

Partition coefficient: noctanol/ Pow: 1.34 (22.7 °C)

Product Name: Aperlan Poka-Yoke Agent B SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

organisms is possible.

## Mobility in soil

#### Components

#### Potassium hydroxide

Mobility: Remarks: Mobile in soils

Benzotriazole

Mobility: Remarks: No data available.

#### Results of PBT and vPvB assessment

#### **Product**

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB)

at levels of 0.1 % or higher.

Do not allow to enter waterways.

## **Section 13. Disposal Considerations**

### **Disposal Method:**

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Corrosive" and that the label also has the Corrosive Pictogram, waste type identifier, and the business name, address, and phone number.

**Disposal methods to avoid:** Do not allow to enter waterways.

# Section 14 Transport Information

# This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020 and SNZ HB 5433:2021



# Road, Rail, Sea and Air Transport

UN No	1814
Class - Primary	8
Packing Group	II
<b>Proper Shipping Name</b>	POTASSIUM HYDROXIDE, SOLUTION
Marine Pollutant	No
<b>Special Provisions</b>	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

#### Section 15 Regulatory Information

#### **EPA Approval No:**

Product Name: Aperlan Poka-Yoke Agent B SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Trigger quantities for this substance:

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	250L
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16	Other Information
Glossary	
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms
	inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible
	authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

#### References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the New Zealand distributor, if further information is required.

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