

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **PBW Liquid Cleaner**
 Product Use: Industrial Use Cleaner
 Restriction of Use in NZ: Refer to Section 15

Australian Supplier: **Bevie Warehousing PTY Limited**
 1/138 Buchanan Road
 Banyo, Queensland, Australia, 4014

Tel: +61 7 3267 1363
Australian Emergency No **13 11 26 (National Poison Centre)**

New Zealand Supplier: **Bevie Handcraft NZ Ltd**
 Address: 328 Rosedale Rd
 Albany, Auckland, New Zealand, 0632

Telephone: +64 6 880 8533
Emergency No: **0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 18 January 2022

Section 2. Hazards Identification

Australia:

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

New Zealand:

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

EPA Approval No: Cleaning Products (subsidiary) – HSR002530

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.

Prevention Code	Prevention Statement
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves, eye protection.

Response Code	Response Statement
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Sodium metasilicate	1 - 2	6834-92-0
Sodium Hydroxide	<1	1310-73-2
Non hazardous or chemicals not contributing to final classification	To 100%	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Take off contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
If Swallowed	Do not induce vomiting without medical advice. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. 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. Seek medical attention if needed.
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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation:	May cause irritation to the respiratory tract.
Skin:	Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Eye:	Causes severe eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Immediate medical attention and special treatment, if necessary:

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	Products of combustion may include, and are not limited to: oxides of carbon. Oxides of sodium.
Suitable Extinguishing media	Use extinguishing media appropriate for surrounding fire. Do not use water jet.
Precautions for firefighters and special protective clothing	Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures**Personal precautions:**

Use protective clothing as detailed in Section 8. Evacuate all non-essential personnel.

Environmental precautions:

Prevent entry to sewers and public waters.

Spill and Disposal procedures:

Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Dispose of waste safely, according to local Council regulations as per Section 13.

Section 7. Handling and Storage**Precautions for Handling:**

- Read label before use.
- Avoid contact with skin and eyes.
- Avoid breathing fumes, vapours or mist.
- Do not swallow.
- Handle and open container with care.
- When using do not eat, drink or smoke.
- Good housekeeping is important to prevent accumulation of dust.
- Take off contaminated clothing and wash it before reuse.
- Wash hands after handling.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of the reach of children.
- Store tightly closed in a dry, cool and well-ventilated place.

Section 8 Exposure Controls / Personal Protection**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

Sodium hydroxide [1310-73-2]

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

Engineering Controls

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Personal Protection Equipment



Eyes	Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Hands	Chemical resistant gloves (according to European standard NF EN 374 or equivalent)
Skin	Wear suitable protective clothing.
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
General	Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Clear
Odour	Not available
Odour Threshold	Not available
pH	12.5
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	1.071
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to Avoid	Heat. Incompatible materials.
Incompatible Materials	Strong acids. Strong oxidizers.
Hazardous Decomposition Products	May include, and are not limited to: oxides of carbon. Oxides of sodium. irritating vapours.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Not applicable. ATE CLP (oral) = 66264.368mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation. pH: 12.4 – 12.7 (Alkali Reserve : 1.57)
Skin	Causes skin irritation. pH: 12.4 – 12.7 (Alkali Reserve : 1.57)

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Individual component information:**Acute Toxicity:**

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Sodium metasilicate (6834-92-0)	1153 mg/kg (rat)	>5000 mg/kg (rat)	>2.06 mg/L air (rat)
Sodium Hydroxide (1310-73-3)	325mg/kg (rat)	1350mg/kg (rabbit)	-

Section 12. Ecotoxicological Information

May cause long-term adverse effects in the aquatic environment.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Individual component information:**Sodium metasilicate (6834-92-0)**

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish 1	Species: Brachydanio rerio [semi-static]	96 hr	210 mg/L
Acute aquatic, fish 2	Brachydanio rerio	96 hr	210 mg/L
Chronic aquatic, fish	Daphnia magna	-	1700 mg/L
Algae	Desmodesmus subspicatus	72h	207 mg/L

Sodium hydroxide (1310-73-2)

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish 1	Species: Oncorhynchus mykiss [static]	96 hr	45.4mg/L
Crustacea	-	-	40 mg/L

Section 13. Disposal Considerations**Disposal Method:**

Triple rinse and dispose according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information**Australia:**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Schedule 5 Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

New Zealand:

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

EPA Approval Code: Cleaning Products (subsidiary) – HSR002530

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

Section 16 Other Information**Glossary**

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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:**Australia:**

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.

6. American Conference of Industrial Hygienists (ACGIH).
7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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Issue Date: 18 January 2022 Review Date: 18 January 2027