SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product:	**Algex**
Product Use:	Biocide for industrial and/or commercial use.
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	**Power Up Lubricants NZ Ltd**
Address:	41 Hororata Road RD 2 Darfield, 7572 Canterbury New Zealand
Telephone:	+64 3 962 9990 / 0800 33 66 66
Emergency No:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	2 March 2026 v2

Section 2. Hazards Identification

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

EPA Approval No: Additives, Process Chemicals and Raw Materials (Acutely Toxic, Corrosive) – HSR002510

Pictograms

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 3	H301	Toxic if swallowed.
Acute dermal toxicity Cat. 3	H311	Toxic in contact with skin.
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
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. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.

P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment [if this is not the intended use].
P280	Wear protective clothing [as detailed in SDS 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.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P361+P364	Take off immediately contaminated clothing and wash before reuse.

Storage Code	**Storage Statement**
P405	Store locked up.

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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Mixture of: 5-chloro-2-methyl-4 isothiazolin-3-one and 2-methyl-2H isothiazol-3-one (3:1)	>10 - <20	55965-84-9
Dipropylene glyco	>80	25265-71-8
Nonhazardous	To bal	

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. Immediately call a POISON CENTER or doctor/physician.

If on Skin — Wash skin with plenty of water for at least 20 minutes, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek immediate medical attention. Product is both toxic and corrosive to skin. If blistering occurs, do not burst blisters as this may allow product to enter body through skin.

If Swallowed — DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. If unconscious, seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.

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: Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled. May cause an allergic skin reaction. Causes severe skin burns and eye damage.

Notes to Doctor: Treat symptomatically. Product is highly corrosive to eyes and skin and toxic via ingestion and skin contact. Ophthalmological opinion should be sought for burns to eyes.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	May give off corrosive/irritating fumes in a fire containing oxides of carbon, nitrogen and sulphur.
Suitable Extinguishing media	Use carbon dioxide, dry powder, foam, or water spray. Do not use water jet.
Precautions for firefighters and special protective clothing	Wear full firefighting gear and self-contained breathing apparatus.
HAZCHEM CODE	**2X**

Section 6. Accidental Release Measures

Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid contact with skin and eyes. Avoid breathing mist/vapours/spray. Increase ventilation.

Avoid release to the environment. If product enters waterways notify authorities.

Contain the spill. Absorb with suitable inert material such as sand, earth. Collect into a suitable waste container for disposal. Ensure waste container is properly labelled.

Dispose of in compliance with local and/or national regulations as detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing [as detailed in SDS Section 8].
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke when using this product.
- Remove contaminated clothing and wash hands and face before entering eating areas.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Keep out of reach of children.
- Keep in original labelled container.

- Keep container tightly closed when not in use.
- Store in a cool, dry, well-ventilated area.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³

No ingredients have exposure limits

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 Feb 2025 15TH EDITION.

Engineering Controls

Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates large quantities of vapours/mist/spray, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.

Personal Protection Equipment

Eyes	Use safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Hands	Wear protective gloves that are resistant to the product, e.g., PVC. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Body	Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Respiratory	If ventilation is inadequate and use generates mist/vapours/spray, use a respirator suitable for organic mist/vapours/spray.
General	PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating, drinking, or smoking. Handle in accordance with safe industrial hygiene practices.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Colourless to slightly yellowish
Odour	Mild
Odour Threshold	Not available
pH (20^{0}C)	4.5 – 7 (1%)
Boiling Point	228^{0}C
Melting Point	Not available
Freezing Point	Not available
Flash Point	>100^{0}C
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available

Water Solubility	Fully miscible
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	None expected under normal conditions of use.
Conditions to Avoid	Elevated temperatures.
Incompatible Materials	Incompatible with strong oxidisers. Keep away from foodstuffs and animal feed.
Hazardous Decomposition Products	Thermal decomposition may result in corrosive/irritating fumes containing oxides of carbon, nitrogen, and sulphur.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Toxic if swallowed.. LD5O = ≤300 mg/kg
Dermal	Toxic if in contact with skin. LD5O = >200 - <1000 mg/kg
Inhalation	Harmful if inhaled. LC50 = >1 = <5 mg/L (mist)
Eye	Causes serious eye damage. May cause corneal burns. Pain may be delayed.
Skin	Product is corrosive to skin causing redness, pain, blistering. Product is also toxic by skin contact. Causes an allergic skin reaction.

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.

Section 12. Ecotoxicological Information

Toxic to aquatic life with long lasting effects.

Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1) is classified as very toxic in the aquatic environment with both acute and chronic effects. At the concentration present in the product, this will be toxic in the aquatic environment with chronic effects.

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

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 appropriate pictograms from Section 2, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020

Road, Rail, Sea and Air Transport

UN No	2922
Class - Primary	8
Subsidiary Risk	6.1
Packing Group	II
Proper Shipping Name	CORROSIVE, LIQUID N.O.S (contains 5-chloro-2-methyl-4-isothiazolin-3-one and 2 methyl-2H -isothiazol-3-one)
Marine Pollutant	YES
Special Provisions	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

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

EPA Approval Code: **Additives, Process Chemicals and Raw Materials (Acutely Toxic, Corrosive) – HSR002510**

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	100L
Secondary Containment	100L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

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:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15th 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 Power Up Lubricants, if further information is required.

Issue Date: 2 March 2026 Review Date: 2 March 2031