

Section 1. Identification of the material and the supplier

Product: Lightclean
 Product Code: LCW
 Product Use: Specialised cleaner (underwater lights)

New Zealand Supplier: Propspeed International Ltd
 23 Akatea Road
 Glendene
 Auckland 0602
www.propspeed.com
 Email: info@propspeed.com

Telephone: +64 9 524 1470
 Fax: +64 9 813 5246

Australian Supplier: 18/5 Daintree Place,
 West Gosford,
 NSW 2250, Australia

Telephone: 1800 677 436

Emergency Response Telephone: New Zealand: 0800 243 622
 Australian 1800 127 406
 (24 hours, 365 days) Global Access +64 4 917 9888 (ChemCall)

Date of SDS Preparation: 15 September 2021

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: HSR001094

Pictograms:



Signal Word: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 2	H225	Highly flammable liquid and vapour.
Eye irritation Cat. 2	H319	Causes serious eye irritation.

Prevention Code	Prevention Statement
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.

P233	Keep container tightly closed.
P240	Ground, bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in Section 8.

Response Code Response Statement

P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 AFFF alcohol compatible foam or water spray for extinction.

Storage Code Storage Statement

P403 + P235	Store in a well-ventilated place. Keep cool.
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Disposal Code Disposal Statement

P501	Dispose of according to local regulations as per Section 13.
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Section 3. Composition / Information on Hazardous Ingredients

Ingredient name	CAS No.	Content Weight%
Tetra n-Butyl Acetate	540-88-5	>99.9

Section 4. First Aid Measures

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Wash skin with soap and water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention if needed.
If Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if needed.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	Not applicable.
Inhalation:	Not applicable.
Skin:	Not applicable.
Eye:	Causes serious eye irritation.

Section 5. Fire Fighting Measures

Hazard Type	Highly Flammable liquid.
Hazards from combustion products	On combustion, may emit toxic fumes of carbon oxides (CO ₂ , CO).
Suitable Extinguishing media	Water spray, alcohol resistant foam, Carbon dioxide, dry chemical powder.
Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers. Alert Fire Brigade and tell them location and nature of hazard.

Section 6.**Accidental Release Measures**

Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations in Section 8. Clear area of personnel and move upwind. May be violently or explosively reactive. No smoking, naked lights or ignition sources. Increase ventilation.

Stop leak if safe to do so. Water spray or fog may be used to disperse/absorb vapour. Contain spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains

-If contamination of drains or waterways occurs, advise emergency services.

Dispose of according to Local Regulations.as per to Section 13.

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

- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground,bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Use in well ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights, heat or ignition sources.
- When handling, DO NOT eat, drink or smoke.
- Vapour may ignite on pumping or pouring due to static electricity.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions
- Wear protective clothing as detailed in Section 8.

Conditions for safe storage:

- Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources
- Keep containers securely sealed.
- Store away from incompatible materials listed in Section 10, in a cool, dry well-ventilated area.
- Protect containers against physical damage and check regularly for leaks.

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

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Tetra n-Butyl Acetate [540-88-5]	200	950	-	-

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 (WES-STEL). 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 NOV 2020 12TH EDITION.

Engineering Controls:

None required when handling small quantities. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal Protection Equipment



Eyes	Safety glasses with side shields; or as required. Chemical goggles. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
Hands	Wear protective gloves. Nitrile gloves are recommended. Inspect gloves prior to use and ensure proper glove removal technique to avoid skin contact with contaminated surfaces. Dispose of contaminated gloves according to local laws and good workplace practices.
Skin	Impervious protective clothing for small quantities. Consider wearing flame retardant antistatic protective equipment if working with larger quantities. Wear safety footwear.
Respiratory	Avoid generating and breathing mist and vapour. If applicable to use an air-purifying respirator approved by government standards NIOSH (US) or CEN (EU).

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Colourless
Odour	Fruity
Odour Threshold	Not available
pH	Not available
Boiling Point	97 - 98°C
Melting Point	-580°C
Freezing Point	Not available
Flash Point	4°C (closed cup)
Flammability	Highly Flammable
Upper and Lower Explosive Limits	1.5 – 1.7%
Vapour Pressure	5.6 kPa @ 20°C
Vapour Density	4.65 (air=1)
Relative Density	0.866 g/cm ³
Specific Gravity	Not available
Water Solubility	Soluble in water (~6.7g/l)
Partition Coefficient:	log Pow = 1.64 at 21.7°C
Auto-ignition Temperature	589°C at 101.5 kPa
Decomposition Temperature	Not available
Kinetic Viscosity	Not available
Refractive Index	Not available
Particle Characteristics	Not available
Evaporation Rate	3.2 fast

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal usage conditions. Curing time: 10 min - 1 h (20°C)
Possibility of hazardous reactions	Not Available
Conditions to Avoid	Avoid heat, flames and other sources of ignition.
Incompatible Materials	Oxidizing agents.
Hazardous Decomposition Products	Carbon oxides (CO, CO ₂).

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 = 4100 mg/kg (Male Rat)
Dermal	Not applicable. nLD50 = >2000mg/kg (Rabbit).
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Not applicable.

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

This product is not hazardous to the environment.

Product:	
Persistence and degradability	Aerobic – exposure time 28 days Result: 50% (inherently biodegradable).
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Toxicity Fish (rainbow trout) LC50(96): 240 mg/L
Toxicity Arthropoda (water flea) EC50(48): 350 g/L/48Hr

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

Spent media that has removed toxic chemicals should be examined for specific hazards. Dispose of according to Local Regulations.

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

Precautions or methods to avoid: None known.

Section 14 Transport Information

Australia - This product is classified as **Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

New Zealand - This product is classified as a **Dangerous Good** for transport in NZ ; NZS 5433:2012

**Road, Rail, Sea and Air Transport**

UN No	1123
Class – Primary	3

Packing Group	II
Proper Shipping Name	BUTYL ACETATES
Marine Pollutant	No
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

Australia:

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

Not classified as a Scheduled 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: **HSR001094**

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	100L(>5L), 250L (<5L), 50L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Fire Extinguishers	250L = 2x.
Restriction of Use	No person may use this substance described as a pesticide or a veterinary medicine. However, this substance may be used in the formulation of a pesticide or a veterinary medicine. For the purpose of this control— (a) pesticide includes, but is not limited to, a product intended for use as an acaricide, antifouling paint, avicide, fumigant, fungicide, insecticide, herbicide, miticide, molluscicide, piscicide, timber treatment preservative or vertebrate toxic agent; and (b) veterinary medicine has the same meaning given to it in the Agricultural Compounds and Veterinary Medicines Act 1997.

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

Disclaimer

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Please contact the New Zealand Manufacturer or Australian supplier, if further information is required.

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