

**Section 1 Identification of the Material and the Supplier**

Product: Lightclean  
 Product Code: LCW  
 Product Use: Specialised cleaner (underwater lights)  
 Restrictions of Use: Refer to Section 15  
 Supplier: Oceanmax International Ltd  
 25 Akatea Road  
 Glendene  
 Auckland 0602  
 New Zealand  
[www.propspeed.com](http://www.propspeed.com)  
 Telephone: 0800 LESS FUEL (0800 5377 3835)  
 Fax: +64 9 813 5246  
 Emergency Response Telephone: New Zealand 0800 243 622  
 (24 hours, 365 days) Australian 1800 127 406  
 Global Access + 64 4 917 9888  
 NZ National Poisons Centre Telephone: 0800 POISON (0800 764 766)  
 Date of SDS Preparation: 13 August 2018, Version 2

**Section 2 Hazards Identification**

**Hazardous Status:** This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017  
**EPA Approval Code:** HSR001094

**GHS Pictograms:**



Flammable



Irritant

GHS Signal Word: **Danger**

| HSNO Classification | Hazard Code | Hazard Statement                    | GHS Category  |
|---------------------|-------------|-------------------------------------|---------------|
| 3.1B                | H225        | Highly flammable liquid and vapour. | Flam. Liq. 2  |
| 6.3B                | H316        | Causes mild skin irritation.        | Skin Irrit. 3 |
| 6.4A                | H319        | Causes serious eye irritation.      | Eye Irrit. 2A |

| Prevention Code | Prevention Statement   |
|-----------------|--|
| P103            | Read label before use.   |
| P210            | Keep away from heat, sparks, open flame or hot surfaces. No smoking. |
| P233            | Keep container tightly closed.                                       |

|      |  |
|------|--|
| P240 | Ground/bond container and receiving equipment.           |
| P241 | Use explosion-proof electrical, ventilating or lighting. |
| P242 | Use only non-sparking tools.                             |
| P243 | Take precautionary measures against static discharge.    |
| P264 | Wash hands thoroughly after handling.                    |
| P280 | Wear protective clothing 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. |
| P332 + P313      | If skin irritation occurs: Get medical advice/ attention.  |
| P337 + P313      | If eye irritation persists: Get medical advice/attention.  |
| P370 + P378      | In case of fire: Use water spray, alcohol resistant foam, Carbon dioxide or dry chemical powder.for extinction.                  |

| Storage Code | Storage Statement                            |
|--------------|--|
| P403 + P235  | Store in a well-ventilated place. Keep cool. |
| P405         | Store locked up.                             |

| Disposal Code | Disposal Statement   |
|---------------|--|
| P501          | Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed hazardous waste contractor. See local council for disposal/recycling information. |

### Section 3 Composition / Information on Hazardous Ingredients

| Ingredients        | Wt (%) | CAS Number |
|--------------------|--------|------------|
| Tert-Butyl Acetate | ≥99.9  | 540-88-5   |

### Section 4 First Aid Measures

|              |  |
|--------------|--|
| If in Eyes   | Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. If eye irritation persists: Get medical advice/attention.  |
| If on Skin   | Wash with soap and plenty of water. If skin irritation occurs: Get medical advice/ attention.  |
| If Swallowed | Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.   |
| If Inhaled   | 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. Call the doctor if needed. |

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

##### Symptoms

|             |                                |
|-------------|--------------------------------|
| Ingestion:  | Not applicable.                |
| Inhalation: | Not applicable.                |
| Skin:       | Causes mild skin irritation.   |
| Eye:        | Causes serious eye irritation. |

## Section 5 Fire Fighting Measures

|   |  |
|---|--|
| <b>Hazard Type</b>  | Flammable liquid   |
| <b>Hazards from products</b>  | On combustion, may emit toxic fumes of carbon oxides (CO <sub>2</sub> , CO).   |
| <b>Suitable Extinguishing media</b>                                 | Water spray, alcohol resistant foam, Carbon dioxide, dry chemical powder.  |
| <b>Precautions for firefighters and special protective clothing</b> | Wear self-contained breathing apparatus for firefighting if necessary.<br>Use water spray to cool unopened containers. Alert Fire Brigade and tell them location and nature of hazard. |
| <b>HAZCHEM CODE</b>   | <b>3YE</b>   |

## Section 6 Accidental Release Measures

Avoid any exposure. Do not smoke, use open fire or other sources of ignition. For personal protection, see section 8. Follow precautions for safe handling described in this safety data sheet.

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.

## Section 7 Handling and Storage

### Precautions for safe handling:

- Read label before use.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical, ventilating or lighting.
- Use only non-sparking tools.
- 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.
- Take precautionary measures against static discharge.
- Wash hands thoroughly after handling.
- Wear protective clothing 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 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 <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| tert-Butyl acetate | 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 2017 9TH 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



|             |  |
|-------------|--|
| 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).  |
| 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. |
| 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.  |
| Skin        | Impervious protective clothing for small quantities. Consider wearing flame retardant anti-static protective equipment if working with larger quantities. Wear safety footwear.  |

## Section 9

## Physical and Chemical Properties

|                                  |  |
|----------------------------------|--|
| Appearance                       | Liquid                                 |
| Colour                           | Colourless                             |
| Odour                            | Fruity                                 |
| Odour Threshold                  | Data not available                     |
| pH                               | Data not available                     |
| Boiling Point                    | 97-98°C                                |
| Melting Point                    | -58°C                                  |
| Freezing Point                   | Data not available                     |
| Flash Point                      | 4°C (closed cup)                       |
| Flammability                     | Data not available                     |
| Upper and Lower Explosive Limits | 1.5 – 1.7 vol%                         |
| Vapour Pressure                  | 5.6 kPa @20°C                          |
| Vapour Density                   | 4.65 (air=1)                           |
| Relative Density                 | 0.866 g/cm <sup>3</sup>                |
| Specific Gravity                 | 0.87 – 0.92 g.cm <sup>-3</sup>         |
| Water Solubility                 | Partially soluble in water (≈ 6.7 g/L) |
| Partition Coefficient:           | Log Pow = 1.64 at 21.7°C               |
| Auto-ignition Temperature        | 589°C at 101.5 kPa                     |
| Decomposition Temperature        | Data not available                     |
| Viscosity                        | Data not available                     |
| Particle Characteristics         | Data not available                     |
| Evaporation Rate                 | 3.2 Fast                               |

## Section 10 Stability and Reactivity

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

## Section 11 Toxicological Information

### Acute Effects:

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

### 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.

### Environmental Precautions

|   |  |
|---|--|
| <b>Persistence and degradability</b>    | Aerobic – exposure time 28 days<br>Result: 50% (inherently biodegradable). |
| <b>Bioaccumulation</b>                  | No data available  |
| <b>Mobility in Soil</b>                 | No data available.   |
| <b>Other adverse effects</b>            | No data available  |
| <b>Toxicity Fish (rainbow trout)</b>    | LC50(96): 240 mg/L   |
| <b>Toxicity Arthropoda (water flea)</b> | 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 Pictograms, waste type identifier, and the business name, address, and phone number.

**Precautions or methods to avoid:** None known.

## Section 14 Transport Information

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



|                      | Road and Rail  | Marine Transport (IMDG) | Air Transport (IATA) |
|----------------------|----------------|-------------------------|----------------------|
| UN No                | 1123           | 1123                    | 1123                 |
| Proper Shipping Name | BUTYL ACETATES | BUTYL ACETATES          | BUTYL ACETATES       |
| Class                | 3              | 3                       | 3                    |
| Packing Group        | II             | II                      | II                   |
| Hazchem              | 3YE            | 3YE                     | 3YE                  |
| Marine Pollutant     | -              | No                      | -                    |
| EmS                  | -              | F-E, S-D                | -                    |

**Limited Quantities Statement:**

If the product’s individual container is below 1L/kg, 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 2017

EPA Approval Code: HSR001094

HSNO Classes: 3.1B, 6.3B, 6.4A

**HSNO Controls**

Trigger quantities for this substance:

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity  |
|---|---|
| Certified Handler                         | Not required  |
| Location Certificate                      | 100L(>5L), 250L (<5L), 50L open (3.1B)  |
| Tracking Trigger Quantities               | Not required  |
| Signage Trigger Quantities                | 250L(3.1B)  |
| Emergency Response Plan                   | 1000L(3.1B)   |
| Secondary Containment                     | 1000L(3.1B)   |
| Fire Extinguishers                        | At least 2 x 4.5kg powder extinguishers required when 250L is present in a workplace. |
| Restriction of Use                        | Only use for the intended purpose.  |

**Glossary**

|         |   |
|---------|---|
| EC50    | Median effective concentration.   |
| EEL     | Environmental Exposure Limit.   |
| EPA     | Environmental Protection Authority  |
| HSNO    | Hazardous Substances and New Organisms  |
| HSW     | Health and Safety at Work.  |
| LC50    | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD50    | Lethal dose to kill 50% of test animals/organisms.                                      |
| LEL     | Lower explosive level.  |
| OSHA    | American Occupational Safety and Health Administration.                                 |
| STOT/SE | Specific target organ toxicity – single exposure  |
| STOT/RE | Specific target organ toxicity – repeated exposure                                      |
| 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 Nov 2017 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

**Issue Date:** 13 August 2018

**Review Date:** 13 August 2023

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