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# Material Safety Data Sheet

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## SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** LU780 Luna Liquid Laundry Detergent  
**Recommended Use:** Front and Top loading automatic washing machines.  
**Supplier Name:** Luna Solutions Pty Ltd  
**Supplier Address:** PO Box 229 Carlton Sth. Vic. 3053  
**Supplier Contact:** David Penaluna  
**Telephone:** 0418 396308  
**Fax:** (03) 93542856  
**Emergency Contact:** Doctor or Poisons Information Centre 13 11 26

## SECTION 2 – HAZARDS IDENTIFICATION

Statement of Hazardous Nature:

**NOT classified as hazardous according to the criteria of Worksafe Australia.  
NOT a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.**

**Risk Phrases:** Not Hazardous - No criteria found.  
**Safety Phrases:** Not Hazardous - No criteria found.  
**SUSDP Classification:** None allocated.  
**ADG Classification:** None allocated. Not a Dangerous Good.  
**UN Number:** None allocated.

### Emergency Overview

**Physical Description & colour:** Clear, thick liquid.  
**Odour:** Scented.  
**Major Health Hazards:** No significant risk factors have been found for this product.

### Potential Health Effects

**Inhalation:**

**Short term exposure:** Product unlikely to be irritating to respiratory tract.

**Long Term exposure:** No data.

**Skin Contact:**

**Short term exposure:** Product unlikely to cause discomfort.

**Long Term exposure:** No data.

**Eye Contact:**

**Short term exposure:** This product may be irritating to eyes, but is unlikely to cause anything more than mild, transient discomfort.

**Long Term exposure:** No data.

**Ingestion:**

**Short term exposure:** Significant oral exposure is considered to be unlikely.

**Long Term exposure:** No data for health effects associated with long term ingestion.

**Carcinogen Status:** **NOHSC:** No significant ingredient is classified as carcinogenic by NOHSC.  
**NTP:** No significant ingredient is classified as carcinogenic by NTP.  
**IARC:** No significant ingredient is classified as carcinogenic to humans.

**SECTION 3 – COMPOSITION & INFORMATION ON INGREDIENTS**

| Ingredients                           | CAS No    | Proportion | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---------------------------------------|-----------|------------|--------------------------|---------------------------|
| Ionic/non-ionic surfactant blend      | -         | MED        | not set                  | not set                   |
| Other                                 | -         | LOW        | not set                  | not set                   |
| Optical brightener                    | -         | V LOW      | not set                  | not set                   |
| Preservative – Benzyl isothiazilinone | 2682-20-4 | V LOW      | not set                  | not set                   |
| Water                                 | 7732-18-5 | V HIGH     | not set                  | not set                   |

KEY: Proportion, (wt %) - V HIGH >60, HIGH 30 - 60, MED 10 -29, LOW 1-9, V LOW <1

Note: The exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL.

**SECTION 4 – FIRST AID MEASURES**

**NOTE:** You should phone The Poisons Information Centre on 13 1126 if you feel that you may have been poisoned or irritated by this product. Have this MSDS with you when you call.

**Inhalation:** First aid is not generally required. If in doubt, contact *The Poisons Information Centre* or a doctor.

**Skin Contact:** If irritation does occur, wash and apply moisturising cream to affected area.

**Eye Contact:** While holding eyelid(s) open, flush eye(s) with water until the product is removed or irritation has ceased. Obtain medical advice if irritation becomes painful or lasts more than several minutes.

**Ingestion:** Rinse mouth with water and drink several glasses of water. Notify a physician.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Fire and Explosion Hazards:** There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product may be toxic if inhaled.

**Extinguishing Media:** Not Combustible. Use extinguishing media suited to burning materials.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

**Flash point:** Does not burn.

**Upper Flammability Limit:** Does not burn.

**Lower Flammability Limit:** Does not burn.

**Auto ignition temperature:** Not applicable - does not burn.

**Flammability Class:** Does not burn.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures:** Minor spills do not require special clean up measures or emergency procedures. In the event of a major spill, prevent spillage from entering drains or waterways. If in doubt call the EPA. As a minimum, wear gloves during clean up.

**Methods & Materials for Containment & Clean Up:** Stop leak if safe to do so, and contain spill.

Absorb onto sand or other suitable absorbent. If spill is large, bund area to stop material spreading to drains or waterways. Sweep up and collect product into labeled containers for disposal or salvage.

After spills wash area, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Launder protective clothing before re-use.

Advise laundry of nature of contamination when sending contaminated clothing to laundry.

**SECTION 7 – HANDLING AND STORAGE**

**Precautions for Safe Handling:** Not applicable – product is safe for everyday usage.

**Conditions for Safe Storage:** Store in the closed original container in a cool environment out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatible Materials" in Section 10.

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

| Product Exposure Limits: | TWA (mg/m <sup>3</sup> ) | Not set | STEL (mg/m <sup>3</sup> ) | Not set |
|--------------------------|--------------------------|---------|---------------------------|---------|
| <b>Ventilation:</b>      | None required.           |         |                           |         |
| <b>Eye Protection:</b>   | None required.           |         |                           |         |
| <b>Skin Protection:</b>  | None required.           |         |                           |         |
| <b>Respirator:</b>       | None required.           |         |                           |         |

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

|  |  |
|--|--|
| <b>Physical Description &amp; Colour:</b>  | Clear, thick liquid.                     |
| <b>Odour:</b>                              | Scented                                  |
| <b>pH (as supplied):</b>                   | ~ 7 to 8.0                               |
| <b>Vapour Pressure:</b>                    | ~ 2 kPa at 20°C (water vapour pressure). |
| <b>Boiling Point:</b>                      | ~ 100 °C                                 |
| <b>Freezing/Melting Point:</b>             | ~ 0 °C.                                  |
| <b>Specific Gravity:</b>                   | 1.0 g/cm <sup>3</sup> .                  |
| <b>Viscosity:</b>                          | ~ 600 cPs                                |
| <b>Volatile organic compounds content:</b> | < 5 %                                    |
| <b>Percent volatile:</b>                   | > 95 %                                   |
| <b>Solubility:</b>                         | Miscible with water in all proportions.  |

*Additional information*

|  |  |
|--|--|
| <i>Flash point and method of detecting flash point:</i>  | Not flammable.   |
| <i>Flame propagation or burning rate of solid materials:</i>   | Not flammable.   |
| <i>Properties of both flammable and non-flammable materials that may initiate or uniquely contribute to the intensity of a fire (e.g. Class 4 or Class 5):</i> | Not flammable.   |
| <i>Reactions that release flammable gases or vapours:</i>  | None expected.   |
| <i>Fast or intensely burning characteristics:</i>  | None expected. Not flammable.  |
| <i>Non-flammables that could contribute unusual hazards to a fire:</i>   | Does not contain strong oxidants or reductants.<br>Does not contain peroxides. |
| <i>Ignition temperature:</i>   | Not determined. Not flammable.   |

**SECTION 10 – STABILITY AND REACTIVITY**

|  |   |
|--|---|
| <b>Chemical Stability:</b>               | Chemically stable.  |
| <b>Conditions to Avoid:</b>              | Store in the closed original container in a cool place, out of direct sunlight.   |
| <b>Incompatible Material:</b>            | None known.   |
| <b>Hazardous Decomposition Products:</b> | This product is likely to decompose only when heated to dryness. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke are likely to be produced when heated to dryness. |
| <b>Hazardous Reactions:</b>              | None known.   |
| <b>Polymerisation:</b>                   | This product will NOT undergo polymerisation.   |

**SECTION 11 – TOXICOLOGICAL INFORMATION****Health effects from the likely routes of exposure:**

**Inhalation:** Not expected to cause respiratory irritation.  
**Skin:** Not expected to cause irritation.  
**Eye:** May cause slight irritation/discomfort.  
**Ingestion:** May result in irritation to the gastrointestinal tract.  
**Target Organs:** There is no data to hand indicating any particular health effects on target organs.

**Classification of Hazardous Ingredients**

No ingredient mentioned in the List of Designated Hazardous Substances is present in this product at hazardous concentrations.

**SECTION 12 – ECOLOGICAL INFORMATION**

Major ingredients are biodegradable and will not accumulate in soil or water or cause long term problems.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Disposal methods & containers:** Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site. This product should be suitable for landfill. Check with Waste Disposal Authority before sending. Do NOT dispose into sewers or waterways.

**SECTION 14 – TRANSPORT INFORMATION**

**UN Number:** None allocated.  
**UN Shipping Name:** None allocated.  
**Class & Subsidiary risk:** None allocated. Not Hazardous.  
**Packing Group:** None allocated.  
**Special Precautions for user:** None.  
**Hazchem code:** None allocated. Not Hazardous  
**ADG Code:** Not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

**SECTION 15 – REGULATORY INFORMATION**

All of the significant ingredients in this formulation are to be found in the AICS Database.

**SECTION 16 – OTHER INFORMATION**

This MSDS contains only safety-related information. For other data, refer to product literature.

**Date of preparation or last revision of the MSDS:** 30<sup>th</sup> January, 2007

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL FROM OUR SUPPLIERS.