

**Safety Data Sheet**

Revision Date: 19.10.21

Print Date: Tuesday, 19 October 2021

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## Lustre

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### Classification of Product:

Classified as **HAZARDOUS** according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

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#### 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

- a. Product name: Lustre
  - b. Other means of identification: Chlorinated Dish Powder
  - c. Recommended use of the chemical  
In commercial dish washing machines
  - d. Manufacturer details:  
Dalcon Hygiene  
36 Victoria St Smithfield  
NSW 2164  
Australia  
PH: (02) 9604 1155  
FAX: (02) 9604 9055  
Email: admin@dalconhygiene.com.au
  - e. Poisons information centre: 13 11 26
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#### 2. HAZARD(S) IDENTIFICATION

- a. Classification of the hazardous chemical (Class and category):

Classified as **HAZARDOUS** according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Acute Toxicity (Oral) - Category 4

Skin Corrosion/irritation – Category 1A

Serious Eye Damage/irritation – Category 1

Specific Target Organ Toxicity (STOT) (Single exposure) – Category 3

- b. Signal word: **DANGER**  
c. Pictogram(s): Corrosive, exclamation



d. **Hazard statement(s)**

H302: Harmful if swallowed  
H314: Causes severe skin burns eye damage  
H335: May cause respiratory irritation

e. **Precautionary Statement(s)**

P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P103: Read label before use.

**Prevention:**

P260: Do not breathe dust.  
P264: Wash hands and exposed skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P310: Immediately call a POISON CENTER or doctor.  
P321: Specific treatment (see section 4- first aid).  
P363: Wash contaminated clothing before reuse.

**Storage:**

P403+233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.

**Disposal:** P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Poisons Schedule (SUSMP): 5**

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS number	Proportion	Hazard Codes
Sodium Carbonate	497-19-8	30-60%	H318, H335
Sodium tripolyphosphate	7758-29-4	<1%	-
Alcohols, C12-C14. Ethoxylated	68439-50-9	<1%	H302, H318
Sodium Metasilicate	10213-79-3	30-60%	H302, H314, H335
Sodium Dichloroisocyanuric acid	2893-78-9	<1%	H272, H302, H319, H335, H410

4. FIRST-AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor

**Inhalation:**

Remove victim from immediate source of exposure and ensure the victim is breathing. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. Seek immediate medical attention.

**Skin Contact:**

In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing. Clean contaminated clothing before re-use.

**Eye Contact:**

Hold eyelids open and flush with water for at least 15 minutes. Seek immediate medical attention.

**Ingestion:**

If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended.

**Indication of immediate medical attention and special treatment needed:**

None known.

5. FIRE-FIGHTING MEASURES

**Hazchem or Emergency Action Code: 2X**

a. **Suitable extinguishing equipment:**

Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

b. **Specific hazards arising from the chemical**

Product is a non-flammable solid.

Hazardous products of combustion include; carbon oxides, Sodium oxides, hydrogen.

May react with ammonium salt to produce ammonia gas.

Flammable hydrogen gas may be produced on contact with aluminium, tin, lead and zinc.

Carbon monoxide gas may be produced on contact with reducing sugars.

c. **Special protective equipment and precautions for fire fighters:**

Firefighters should wear a self-contained breathing apparatus and protective firefighting clothing.

Clean area of non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from the fire area if safe to do so.

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6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Slippery when spilt, avoid accidents and clean up immediately.

Clear the area of personnel.

Stop leak if safe to do so.

Avoid creating dust. Wear protective eye goggles, gloves and face mask.

**Environmental precautions:**

The high pH of this material is harmful to aquatic life in large quantities.

Keep away from drains and surface and ground water.

**Methods and materials for containment and cleaning up:**

Containment: store in a bunded area

Clean up procedures: Wear protective eye goggles, gloves and face mask. Clean up using a shovel and a dust binding material or an industrial vacuum cleaner. Transfer to a suitable, labelled container for disposal.

Decontaminate spill area by flushing with large amounts of water.

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7. HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

a. **Precautions for safe handling**

Avoid skin and eye contact and breathing dust. Use in a well-ventilated area.

Ensure an eye bath and safety shower are available for use.

Keep out of reach of children.

Avoid eating, drinking or, smoking when using this chemical.

Wash hands after use.

Remove contaminated clothing and protective equipment after using chemicals and before entering eating areas.

Take precautions against static discharges by bonding and grounding equipment.

**b. Conditions for safe storage, including incompatibilities.**

Store in cool place and out of direct sunlight.

Store at temperatures below 65°C

Store in a bunded area.

Store away from foodstuffs.

Store away from incompatible materials described in Section 10.

Store in original packaging as approved by manufacturer.

Keep containers closed when not in use - check regularly for leaks.

Protect against physical damage and static discharges.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- a. General: No exposure standard has been established for this product by Safe Work Australia (SWA). However, the exposure standard for dust not otherwise specified is 10mg/m<sup>3</sup> (for inspirable dust) and 3mg/m<sup>3</sup> (for respirable dust).
- b. Biological limits: No data available
- c. Engineering controls: An exhaust/ducting system is recommended to keep exposure low. Adequate ventilation should be provided so that exposure limits are not exceeded.
- d. Individual Protection measures:
  - Face mask/ respirator: Air purifying respirator with cartridges approved for use against dusts
  - Eyes: protective goggles should be worn when handling the product
  - Hands: Wear suitable, impervious, nitrile rubber gloves.
  - Clothing: Long sleeved protective clothing and safety footwear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

- a. Physical state: Solid (Powder)
- b. Colour: White
- c. Odour: None
- d. pH: 9
- e. Melting point: >800°C
- f. Initial boiling point and boiling range: 1461°C
- g. Flash point: NA
- h. Evaporation rate: NA
- i. Flammability: Non-Flammable
- j. Vapour pressure: NA
- k. Relative density: NA
- l. Solubility: Soluble in Water
- m. Auto-ignition temperature: NA

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**10. STABILITY AND REACTIVITY**

- a. General information:  
This product is hygroscopic  
Product is stable under normal conditions of use, storage and temperature.  
Generates heat when mixed with acid.
- b. Conditions to avoid:  
Extreme heat; hygroscopic. Protect from moisture.  
Can react violently if in contact with acids.  
Can react with sugar residues to form carbon monoxide.  
Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air.
- c. Incompatible materials: oxidising agents, acids, Aluminium Fluoride, Humid air, sulfuric acid, magnesium, phosphorus pentoxide, light metals, sources of ignition.
- d. Hazardous decomposition products: Decomposition temperature: 400°C, decomposition temperature: carbon dioxide.  
May react with ammonium salt solutions resulting in evolution of ammonia gas.  
Flammable hydrogen gas may be produced on contact with aluminium, tin, lead and zinc.  
Carbon monoxide gas may be produced on contact with reducing sugars.

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## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs include but are not limited to:

### General information:

No Data for this product, however for the constituent SODIUM CARBONATE:

- Acute eye irritation: 25mg/kg (Rabbit), severely irritating, muscle contraction or spasms
- Acute skin irritation: 500mg/24hr (Rabbit), mildly irritating
- Acute dermal toxicity: LD50 Rabbit: 2,000mg/kg
- Acute inhalation toxicity: LD50 – lethal concentration. 50% of test species, 2,300 mg/cu m/2hr, rat
- Acute oral toxicity: LD50- lethal dose. 50% of test species, 4090mg/kg, rat

For the constituent SODIUM METASILICATE:

- Acute toxicity: LD50 Oral, rat -847mg/kg
- Long term ingestion has reported adverse effects to the kidneys of dogs, 2.4g/kg/day for 4 weeks

### Ingestion:

Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation. May cause burns to the mouth, oesophagus, and stomach.

### Skin corrosion/irritation:

Contact with skin may cause irritation and/or skin burns. May cause skin sensitisation in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Serious eye damage/irritation:**

Eye contact may cause eye burns.

**Respiratory or skin sensation:**

Dust corrosive to respiratory tract.

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12. ECOLOGICAL INFORMATION

a. Ecotoxicity:

No Data for this product, however for the constituent SODIUM CARBONATE:

Toxicity to fish: LC50 – *Lepomis macrochirus* (Bluegill) – 300mg/L – 96h

b. Persistence and degradability: This material is biodegradable

c. Bio-accumulative potential: Does not bioaccumulate except in species that use silica as a structural material such as diatoms and silica sponges.

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13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Decontamination and destruction of containers should be considered.

Do not allow waste to enter waterways.

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14. TRANSPORT INFORMATION

This product is classified as **DANGEROUS GOODS** by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

Proper shipping name: DISODIUM TRIOXOSILICATE

Class: 8 Corrosive Substances

Subsidiary risks: No Data Available

EPG: 37 Toxic and/or Corrosive Substances Non-combustible

UN Number: 3253

Hazchem: 2X

Pack Group: III

Special Provision(s): No Data Available

This product is classified as **DANGEROUS GOODS** by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Proper shipping name: DISODIUM TRIOXOSILICATE

Class: 8 Corrosive substances

Subsidiary risks: No Data Available

UN Number: 3253

Hazchem: 2X

Pack Group: III  
Special Provision(s): No Data Available  
EMS: FA, SB  
Marine pollutant: No

This product is classified as **DANGEROUS GOODS** by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Proper shipping name: DISODIUM TRIOXOSILICATE  
Class: 8 Corrosive substances  
Subsidiary risks: No Data Available  
UN Number: 3253  
Hazchem: 2X  
Pack Group: III  
Special Provision(s): No Data Available

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#### 15. REGULATORY INFORMATION

This product is hazardous according to Safe Work Australia; **HAZARDOUS SUBSTANCE**

##### **Classification:**

Acute Toxicity (Oral) - Category 4  
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Serious Eye Damage/irritation – Category 1  
Specific Target Organ Toxicity (STOT) (Single exposure) – Category 3

##### **Hazard statement(s)**

H302: Harmful if swallowed  
H314: Causes severe skin burns eye damage  
H335: May cause respiratory irritation

##### **Poisons Schedule (SUSMP): 5**

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#### 16. OTHER RELEVANT INFORMATION

This Safety Data Sheet (SDS) has been prepared by Dalcon Hygiene

Reason(s) for Issue:

- Alignment to GHS requirements

This SDS summarises to the best of our knowledge at the date of issue, the chemical health and safety hazards of the material and provides general guidelines on how to safely handle the material. Dalcon Hygiene cannot anticipate or control the conditions under which the product may be used, stored and transported, therefore, each user must, prior to usage, assess and control the possible risks.

If clarification or further information is required, the user should contact Dalcon Hygiene at the contact details in section 1d.

By using this product, the user agrees that they have read and understood this SDS, and, knowing the risks associated with the product, wish to use the product.