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OSPA LITHIUM HYPOCHLORITE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	OSPA Lithium Hypochlorite
Product Code	-
Other Names	-
Product Use	Swimming pool sanitiser
Company Name	Focus Products Pty Ltd
Address	35 Moreton St Heathwood QLD 4110
Telephone Number	1300 1 36287
Emergency Telephone	0411 623 619 (A/H)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards	O – Oxidizing C – Corrosive Xn – Harmful
Risk Phrases	R8 - Contact with combustible material may cause fire. R22 - Harmful if swallowed. R34 - Causes burns.
Safety Phrases	S 1/2 - Keep locked up and out of the reach of children. S17 - Keep away from combustible material. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 - After contact with skin, wash immediately with plenty of water. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S60 - This material and its container must be disposed of as hazardous waste.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Lithium hypochlorite	13840-33-0	27-30%

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4. FIRST AID MEASURES

Inhalation	If inhaled remove victim to fresh air. Apply CPR if victim is not breathing. Administer oxygen if breathing is difficult. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek immediate medical attention.
Ingestion	Immediately rinse mouth with water. If swallowed, DO NOT induce vomiting. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair with running water for at least 15 minutes. Seek medical attention if swelling, redness, blistering or irritation occurs.
Eyes	If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek immediate medical attention. Product is an eye irritant and corrosive to the skin. Treatment goal is dilution and removal. Gastric lavage may be useful for ingestion exposure as emesis may produce esophageal damage. Treatment is otherwise symptomatic and supportive.

5. FIRE FIGHTING MEASURES

	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
Suitable Extinguishing Media	Use extinguishing media suitable for the surrounding fire.
Hazardous Combustion Products	When heated or in contact with strong acids toxic chlorine gas may be released.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	May be combustible when in contact with oxidizing materials and will support the combustion of other materials like wood, paper or clothing.
Hazchem Code	1W

6. ACCIDENTAL RELEASE

Spills	Using appropriate protective clothing and safety equipment contain spilled material. Do not add water to spilled material. Using clean non sparking tools transfer all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not use floor sweeping compounds to clean up spills. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form. Do not transport wet or damp material. Keep product out of sewers, watersheds and water systems. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment.
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7. HANDLING AND STORAGE

Handling	Avoid breathing dust and skin and eye contact while handling the product. Wash exposed areas with soap and water. Ensure good industrial hygiene practice. Do not mix with other chemicals, except water.
Storage	Store in a cool, dry, well ventilated place and out of direct sunlight. Keep containers sealed and dry. Store away from incompatible materials. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	Nuisance dust: TWA: - ppm / 10 mg/m ³ STEL: - ppm / - mg/m ³
Engineering Controls	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.
Respiratory Protection	Select respirator based on its suitability to provide adequate worker protection for given working conditions and level of airborne contamination. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Use air-purifying respirator when airborne chemical dust or mist may be present. Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337.
Skin Protection	PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing. See Australian/New Zealand Standard AS/NZS 4501 for more information.
Hygienic Practices	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White granular solid.
Odour	Chlorine odour.

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Solubility in water	43% (%wt @ 25°C)
Boiling Point	Not applicable
Melting point	Decomposes at 135°C
Vapour Pressure (mm of Hg @ 25°C)	Not applicable
Vapour Density (Air = 1)	No information available
Specific Gravity	0.9 – 1.0
Volatility (% by weight)	No information available
Flash Point	Not applicable
Flammable Limit – Lower	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Acids, oxidizing materials
Hazardous Decomposition Products	Toxic chlorine gases.
Hazardous Polymerization Conditions to Avoid	Will not occur. Extreme heat and moisture

11. TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	<p>Inhalation: Inhalation of dust can cause irritation or burns to the nose, throat and mucous membranes. Fine dust reaching the lungs is toxic.</p> <p>Ingestion: Swallowing can cause burns to the mouth, throat and stomach resulting in vomiting, diarrhea and abdominal pain.</p> <p>Eye: A severe eye irritant. Contamination of eyes can result in permanent injury and blindness.</p> <p>Skin: Contact with skin will result in severe irritation and skin burns.</p>
Effects of Overexposure	Irreversible eye damage, which may lead to blindness, skin burns.
Existing Conditions Aggravated by Exposure	No information available.
Carcinogenicity	This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Mobility	No information available.

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13. DISPOSAL CONSIDERATIONS

Disposal methods and containers	Dispose according to applicable local and state government regulations.
Special precautions for landfill or incineration	Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (ADG 7).

UN Number	1471
Proper Shipping Name	LITHIUM HYPOCHLORITE, DRY or LITHIUM HYPOCHLORITE MIXTURE
Dangerous Goods Class	5.1
Subsidiary Risk	Not applicable
Hazchem Code	1W
Packing Group	II
Special Provisions	Not applicable
Limited Quantities	1kg
Packagings & IBCs - Packing Instruction	P002, IBC08
Packagings & IBCs - Special Packing Provisions	B2, B4
Portable Tanks & Bulk Containers – Instructions	Not applicable
Portable Tanks & Bulk Containers – Special Provisions	Not applicable

15. REGULATORY INFORMATION

Lithium hypochlorite is listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS	Rev 3.0 (25/06/2014)	
Prepared by	MSDS.COM.AU Pty Ltd	www.msds.com.au
Abbreviations Used	IARC: International Agency for Research on Cancer STEL: Short term exposure limit TWA: Time weighted average	

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Emergency Contacts

Focus Products Pty Ltd	1300 1 36287
Focus Products Pty Ltd – Emergency Number	0411 623 619 (A/H)
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]