SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

□ **Product (material) name:** Lortan
□ **Other names:** N/A
□ **Recommended use:** Washing concrete floors
□ **Supplier:** Sprint Cleaning Products, Unit 5, 8 Weld Street, Prestons, NSW, 2170
□ **Tel:** 02 8712 2406
□ **Emergency:** Contact Poisons Info Centre 131 126 or Manufacturer

SECTION 2: HAZARDS IDENTIFICATION

□ **Classification of the substance or mixture:**
The ingredients in product formulation are classified as hazardous according to the criteria of the GHS under the following categories:

- Skin corrosion – category 1B
- Specific target organ toxicity (single exposure) – category 3

□ **Pictograms:**

□ **Signal word:** Danger
□ **Hazard statement(s):**
H314: Causes severe skin burns and eye damage
H335: May cause respiratory irritation
□ **Precautionary statement(s):**
PREVENTION:
P261 Avoid breathing mist / vapours / spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / protective clothing / eye protection / face protection
RESPONSE:
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before re-use.
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE:

Chemical name	CAS No.	% product
Sodium Hydroxide	1310-73-2	<30
Sodium Metasilicate	6834-92-0	<10
Sodium Carbonate	497-19-8	<60
Dispersing & Wetting Agents	Various	To 100

This is a commercial product and the exact ratio of ingredients may vary slightly and trace quantities of impurities are also possible.

SECTION 4: FIRST AID MEASURES

General first aid measures: Highly corrosive to any tissue with which it comes into contact. Produces burns, deep ulceration and gelatinous necrotic areas at the site of contact. Low systemic toxicity.

Eyes: If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. Seek medical attention. Permanent damage may occur.

Skin: If product gets on skin, immediately remove contaminated clothing and wash skin with soap and water for at least 15 minutes. If irritation persists, seek medical attention.

Inhalation: If vapours or dusts have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water to achieve dilution. Thoroughly rinse mouth with water. Contact Poison Information Centre.

Advice to Doctor: Treat symptomatically and as for strongly alkaline corrosive material.

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.
Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness.
Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
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.
Autoignition temperature: Not applicable - does not burn.
Flammability Class: Does not burn.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Clear area of all unprotected personnel. Wear full protective equipment to prevent skin and eye contamination. Sweep up, but avoid generating dust. Collect and seal in drums for disposal. Wash area down with large quantities of water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Refer to state regulations for storage and transport requirements. The product is a scheduled poison (S6) and must therefore be stored, maintained and used in accordance with the relevant state poisons act. Keep containers closed at all times. Store away from acids. Do not store in aluminium or galvanised containers.
Conditions for safe storage, including any incompatibilities:	Not to be loaded with dangerous wet substances (class 4.3) oxidising agents (class 5) or foodstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards:	TWA has been identified for sodium hydroxide (caustic soda) of 2 mg/m^3
Engineering controls:	Ensure adequate ventilation: Maintain concentration below recommended exposure limit. Avoid generating and inhaling mists.
Personal protective equipment:	Avoid all contact. Wear overalls, full face shield, elbow-length impervious gloves, splash apron and rubber boots. Leather is attacked by caustic. Use with adequate ventilation. Avoid generating and inhaling mists. If inhalation risk exists wear air-supplied mask. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and protective equipment before storing or re-using.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odour:	Buff coloured Powder
Specific gravity:	0.98
pH:	>10
Flash point:	N/A
Water solubility:	Soluble

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed.

Incompatibilities: Acids, zinc, tin, aluminium and their alloys.

Fire Decomposition: Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness. Carbon dioxide, and if combustion is incomplete, carbon monoxide. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Water, sodium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingestion: Ingestion can result in pain, nausea, vomiting, swelling of the larynx and subsequent suffocation, perforation of the gastrointestinal tract, cardiovascular collapse and coma.

Eye: Corrosive to eyes, contact can cause conjunctivitis, corneal burns and ulceration, which can result in permanent injury and possible loss of sight.

Skin: Corrosive to skin – may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contamination of gloves and boots. Irritant dermatitis may result from working with the material.

Inhalation: Inhalation of dust or mists of the solution will result in respiratory irritation and possible harmful corrosive effects including: Lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

SECTION 12: ECOLOGICAL INFORMATION

Due to the high alkalinity of the ingredients in formulation, the product may be toxic to the environment and aquatic life. However, when diluted with water, the bases will neutralise. Therefore is not expected to be ecotoxic.

SECTION 13: DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Can be carefully neutralised with dilute acid and flushed to drain disposal at approved land waste site.

SECTION 14: TRANSPORT INFORMATION

□ **UN Number**	1824
□ **UN Proper Shipping Name**	Sodium hydroxide solution
□ **Class and subsidiary risk**	8 (corrosive)
□ **Packing Group**	II
□ **Special precautions for user**	Not to be loaded with dangerous wet

substances (class 4.3) oxidising agents (class 5) or foodstuffs.

SECTION 15 REGULATORY INFORMATION

All ingredients are listed on the AICS.

Sodium hydroxide is listed in schedule 6 of the SUSMP.

- Schedule 6 chemicals are substances with a moderate potential for causing harm, the extent of which can be reduced through the use of distinctive packaging with strong warnings and safety directions on the label.

SECTION 16 OTHER INFORMATION

□ **Date of preparation or last revision of the SDS** JANUARY 2017

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
ASCC	Office of the Australian Safety and Compensation Council
CAS number	Chemical Abstracts Service Registry Number
GHS	Globally Harmonised System of Classification and Labelling Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
STEL	Short term exposure limit
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
TWA	Time weighted average
UN Number	United Nations Number

Disclaimer:

A) This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information is meant to describe Safety Requirements of the product and should not be construed as guaranteeing specific properties. This SDS is analogous to the data for the principal components of the mixture/compound. No warranty, express or implied, is made as to its accuracy, reliability or completeness.

B) Each user should read this SDS, all product labels, and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

C) We can not accept any liability for any damage or injury caused by the product as it is sold and its use, handling and storage are completely out of our control.