

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **DENSIL+ Lithium**
Trade Name: Lithium Silicate Solution
Other Names: Lithium silicate
Recommended Use: Aid & Hardening and Dust Proofing Concrete Floors
Revision Date: August 2013
Company Name: On-Crete Australia Pty Ltd
Address: 4 / 489 Scottsdale Drive
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2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture



Exclamation Mark

H319 - Causes serious eye Irritation
H335 - May cause respiratory irritation.
H315 - Causes skin irritation.

Serious Eye Damage/Irritation - Warning - Hazard Category 2A
STOT (Single Exposure) - Warning - Hazard Category 3
Skin Corrosion/Irritation - Warning - Hazard Category 2

GHS Label Elements Including Precautionary Statements

Prevention:

Wash hands thoroughly after handling.
Wear eye protection and face protection.
Avoid breathing mist or vapours.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical /attention.
Take off contaminated clothing and wash before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

Dispose of container in accordance with local, regional or national regulations.

Other hazards which do not result in classification

No additional information

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical</u>	<u>CAS Number</u>	<u>Proportion (w/w)</u>
Silicic acid, lithium salt	12627-14-4	10 – 30%
Water	7732-18-5	>60%

4. FIRST AID MEASURES

Ingestion	If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.
Eye Contact	In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms occur.
Skin Contact	In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms occur

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 surrounding fire.
Hazardous Combustion Products	No information available
Special Protective Actions for Firefighters	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	This material is non-combustible.

Hazchem Code Not allocated.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Avoid breathing vapours and/or mists. Do not touch or walk through spilled material.
Environmental Precautions	In the event of a major spill, prevent spillage from entering drains or water courses.
Methods and Materials for Containment and Cleaning Up	Stop leak if safe to do so and contain spill. Absorb using an inert absorbent such as sand, clay, earth or vermiculite and transfer to proper containers for disposal. Spilled material is slippery. Promptly clean up spills.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours and/or mists. 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
Conditions for Safe Storage	Store in a tightly closed original container in a cool, dry, and well ventilated area. Keep away from acids and metals. Store in clean plastic containers. Separate from acids, reactive metals, and ammonium salts. Keep from freezing. Recommended storage temperature 15°-60° C. Do not store in aluminum, steel, fiberglass, copper, brass, zinc or galvanized containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters - Exposure Standards (Safe Work Australia)	No exposure standards set.
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.
Personal Protective Equipment (PPE)	
Respiratory Protection	If all workplace limits are observed and good ventilation is ensured, no special precautions necessary. Wear a Safe Work Australia approved

organic vapour respirator if ventilation is inadequate to keep vapours below the occupational exposure standards or if working in confined areas. See Australian Standards AS/NZS 1715 and 1716 for more information.

Eye/Face Protection	Safety glasses with top and side shields or goggles. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
Skin Protection	Nitrile, neoprene or rubber gloves and protective clothing and apron. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
Thermal Hazards	No information available

9. PHYSICAL AND CHEMICAL PRPERTIES

Appearance	Colourless clear liquid
Odour	Odourless
Odour Threshold	No information available
pH	10 – 10.5
Melting Point	Not applicable
Initial Boiling Point / Range	101°C -102°C
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Non flammable
Lower Flammability or Explosive Limit	Not applicable
Upper Flammability or Explosive Limit	Not applicable
Vapour Pressure	Not applicable
Relative Density (Specific Gravity)	1.07
Solubility in Water	Complete (100%)
Auto-ignition Temperature	No information available
Percent Volatiles by Volume	No information available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable at ambient temperature and under normal conditions of use
Hazardous Polymerization Conditions to Avoid	Will not occur.
Incompatible Materials	None.
Hazardous Decomposition Products	Acids and metals. Gels and generates heat when mixed with acid. Absorbs carbon dioxide on exposure to air. May react with ammonium salts resulting in evolution of ammonia gas. Prolonged contact with aluminum, tin, lead and zinc may produce flammable hydrogen gas
	Hydrogen.

11. TOXICOLOGICAL INFORMATION

Toxicity	Lithium compounds: Repeated ingestion or ingestion of large doses of soluble lithium compounds is reported to cause temporary mental function impairment. Repeated ingestion or ingestion of large doses of soluble lithium compounds during pregnancy is reported to cause fetal abnormalities.
Skin Corrosion/Irritation	Causes skin irritation.
Serious Eye	Causes serious eye irritation, with tearing, redness and pain.
Damage/Irritation	
Respiratory or Skin	Not expected to be a sensitizer
Sensitisation	
Germ Cell Mutagenicity	Not expected to be a hazard.
Carcinogenicity	This product does NOT contain any IARC listed chemicals.
Reproductive Toxicity	Not expected to be a developmental toxicant. Not expected to impair fertility.
Specific Target Organ	May cause respiratory irritation.
Toxicity (STOT) - Single	
Exposure	
Specific Target Organ	Not expected to be a hazard.
Toxicity (STOT) -Repeated	
Exposure	
Aspiration Hazard	Not expected to be a hazard.
Existing Conditions	No information available.
Aggravated by Exposure	

12. ECOLOGICAL INFORMATION

Toxicity	No information available.
Bioaccumulation, Persistence and Degradability	No information available.

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

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

Shipping Name	None Allocated
UN No.	None Allocated
Dangerous Goods Class	None Allocated
Subsidiary Risk Class	None Allocated
Hazchem Code	None Allocated

Packaging Group	None Allocated
EPG	None Allocated
Poisons	None Allocated

15. REGULATION INFORMATION

Silicic acid, lithium salt is listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Abbreviations Used	GHS – Globally Harmonised System of Classification and Labeling of Chemicals IARC: International Agency for Research on Cancer STEL: Short term exposure limit TWA: Time weighted average
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This MSDS summarizes based on our present best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the work place. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use 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 On-Crete Australia Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions.

--END OF MSDS--