

## FSG HARDENER PLUS

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	FGS Hardener Plus
<b>Product Code</b>	-
<b>Other Names</b>	-
<b>Product Use</b>	Hardener for Polished Concrete
<b>Company Name</b>	Seal Hard Australia Pty Ltd
<b>Address</b>	60 Centenary Place Logan Village QLD 4207
<b>Telephone Number</b>	07 5546 3660
<b>Emergency Telephone</b>	0413 443 556

## 2. HAZARDS IDENTIFICATION

## Classification of the Substance or Mixture



## Exclamation Mark

H319 - Causes serious eye irritation	Serious Eye Damage/Irritation - Warning - Hazard Category 2A
H335 - May cause respiratory irritation.	STOT (Single Exposure) - Warning - Hazard Category 3
H315 - Causes skin irritation.	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**

Chemical Characterisation	Mixture	
Hazardous Ingredient	CAS Number	Proportion
Silicic acid, sodium salt	1344-09-8	>15%
Silanetriol, methyl-, sodium salt	16589-43-8	<1%

**4. FIRST AID MEASURES**

<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms occur.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.
<b>Skin</b>	In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.
<b>Eyes</b>	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.

**5. FIRE FIGHTING MEASURES**

	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
<b>Suitable Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Hazardous Combustion Products</b>	No information available.
<b>Special Protective Actions for Firefighters</b>	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
<b>Unusual Fire or Explosion Hazards</b>	None known.
<b>Hazchem Code</b>	Not allocated.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	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.
<b>Environmental Precautions</b>	In the event of a major spill, prevent spillage from entering drains or water courses.
<b>Methods and Materials for Containment and Cleaning Up</b>	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.

**7. HANDLING AND STORAGE**

<b>Precautions for Safe Handling</b>	Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours and/or mists. Use only outdoors or in a well-ventilated area.
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<b>Conditions for Safe Storage</b>	<p>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.</p> <p>Store in a tightly closed original container in a cool, dry, and well ventilated area. Keep away from acids and metals. Store locked up. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas can be generated.</p>
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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control Parameters - Exposure Standards (Safe Work Australia) Engineering Controls</b>	<p>No exposure standards set.</p> <p>Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.</p>
<b>Personal Protective Equipment (PPE)</b>	
<b>Respiratory Protection</b>	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.
<b>Eye/Face Protection</b>	Safety glasses with top and side shields or goggles. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
<b>Skin Protection</b>	Nitrile, neoprene or rubber gloves and protective clothing and apron. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
<b>Thermal Hazards</b>	No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear to hazy liquid
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	No information available
<b>pH</b>	~11
<b>Melting Point</b>	Not applicable
<b>Initial Boiling Point / Range</b>	No information available
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability</b>	Non flammable
<b>Lower Flammability or Explosive Limit</b>	Not applicable
<b>Upper Flammability or Explosive Limit</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Relative Density (Specific Gravity)</b>	1.16
<b>Solubility in Water</b>	Miscible
<b>Auto-ignition Temperature</b>	No information available
<b>Percent Volatiles by Volume</b>	No information available

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable at ambient temperature and under normal conditions of use
<b>Hazardous Polymerization Conditions to Avoid</b>	Will not occur.
<b>Incompatible Materials</b>	None. Acids and metals. Contact with acids will cause gelling and the evolution of heat. Prolonged contact with aluminum may produce flammable hydrogen gas
<b>Hazardous Decomposition Products</b>	None.

**11. TOXICOLOGICAL INFORMATION**

<b>Toxicity</b>	<b>Silicic acid, sodium salt:</b> Oral LD <sub>50</sub> ( rat ) = 2000-3000 mg/kg
<b>Skin Corrosion/Irritation</b>	Causes skin irritation. May be absorbed through skin.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye irritation, with tearing, redness and pain.
<b>Respiratory or Skin Sensitisation</b>	Not expected to be a sensitiser.
<b>Germ Cell Mutagenicity</b>	Not expected to be a hazard.
<b>Carcinogenicity</b>	This product does NOT contain any IARC listed chemicals.
<b>Reproductive Toxicity</b>	Not expected to be a developmental toxicant. Not expected to impair fertility.
<b>Specific Target Organ Toxicity (STOT) - Single Exposure</b>	May cause respiratory irritation manifesting in coughing, sneezing or other symptoms of upper respiratory tract irritation.
<b>Specific Target Organ Toxicity (STOT) -Repeated Exposure</b>	Not expected to be a hazard.
<b>Aspiration Hazard</b>	Not expected to be a hazard.
<b>Existing Conditions Aggravated by Exposure</b>	No information available.

**12. ECOLOGICAL INFORMATION**

<b>Toxicity</b>	<b>Silicic acid, sodium salt:</b> <b>Aquatic organisms:</b> LC <sub>50</sub> 96hr (Mosquito fish) = 1800-2300 mg/L LC <sub>50</sub> 96hr (Pond snail) = 632 mg/L EC <sub>50</sub> 100hr (Water flea) = 247 mg/L <b>Terrestrial data:</b> Oral LD <sub>50</sub> (mouse) = 1100 mg/kg Laboratory tests indicate that it exhibits low toxicity to aquatic organisms and moderate toxicity to terrestrial animals.
<b>Bioaccumulation, Persistence and Degradability</b>	Inorganic compound - not subject to biodegradation. It is strongly alkaline and may raise the pH if dissolved in surface water.

**13. DISPOSAL CONSIDERATIONS**

<b>Disposal methods and containers</b>	Dispose according to applicable local and state government regulations.
<b>Special precautions for landfill or incineration</b>	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.

<b>UN Number</b>	Not applicable
<b>Proper Shipping Name</b>	Not applicable
<b>Dangerous Goods Class</b>	Not applicable
<b>Subsidiary Risk</b>	Not applicable
<b>Hazchem Code</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Special Provisions</b>	Not applicable
<b>Limited Quantities</b>	Not applicable
<b>Packagings &amp; IBCs - Packing Instruction</b>	Not applicable
<b>Packagings &amp; IBCs - Special Packing Provisions</b>	Not applicable
<b>Portable Tanks &amp; Bulk Containers - Instructions</b>	Not applicable
<b>Portable Tanks &amp; Bulk Containers - Special Provisions</b>	Not applicable

**15. REGULATORY INFORMATION**

Silicic acid, sodium salt and silanetriol, methyl-, sodium salt are listed in the Australian Inventory of Chemical Substances (AICS).

**16. OTHER INFORMATION**

<b>Last Revision of MSDS</b>	Rev 1.0 (19/09/2012)
<b>Prepared by</b>	MSDS.COM.AU Pty Ltd <a href="http://www.msds.com.au">www.msds.com.au</a>

<b>Abbreviations Used</b>	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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**Emergency Contacts**

<b>Seal Hard Australia Pty Ltd</b>	<b>07 5546 3660</b>
<b>Seal Hard Australia Pty Ltd - Emergency Number</b>	<b>0413 443 556</b>
<b>Police and Fire Brigade</b>	<b>000</b>
<b>Poisons Information Centre</b>	<b>131126</b>

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This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"