



SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: SealCoatz™

Specific End Use: Concrete Hardener/Sealer

Name, Address, and Telephone of the Responsible Party Company

Concord Sealers Pty Ltd

60 Centenary Place,

Logan Village, Qld 4207

(T) 07 5547 0052

www.concordsealers.com.au

SECTION 2 – HAZARDS CLASSIFICATION/ IDENTIFICATION

Physical hazards

Not classified

Health hazards

Skin Corrosion/ irritation

Category 2

Serious eye damage/ eye irritation

Category 1

Environmental hazards

Not classified

Label Elements

Hazard symbol



Corrosion

Exclamation
mark

Signal Word

Danger

Hazard Statement

Causes skin irritation. Causes serious eye damage

Precautionary Statements

Prevention

Wash thoroughly after handling. Wear protective gloves/ eye protection/ face protection

Response

If on skin: Wash with plenty of water.

If skin irritation occurs: Get medical advice/ attention. Take of contaminated clothing and wash it before use.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Centre/ doctor.

Storage

Store away from incompatible materials

Disposal

Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

Other Hazards

Not a PBT or vPvB substance or mixture

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures

Chemical Ingredients	CAS number	Concentration of ingredients
Sodium Silicate	1344-09-8	10 – 13

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume

SECTION 4 – FIRST AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Skin Contact

Take off immediately all contaminated clothing. Wash contaminated clothing before use. Get medical attention immediately

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if any discomfort continues.

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Personal Protection for first-aid responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

Symptoms caused by exposure

Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.

Medical attention and special treatment

Provide general supportive measures and treat symptomatically.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Substance or Mixture

By heating and fire, irritating vapors/gases may be formed

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Firefighting equipment/ instructions

Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

Hazchem Code

Not available

General fire hazards

No unusual fire or explosion hazards noted.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency personnel

Keep unnecessary personnel away. Wear appropriate PPE protection during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For Emergency responders

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing

Environmental Precautions

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

Methods and Materials for Containment and Cleaning Up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

Other issues relating to spills and releases

Clean up in accordance with all applicable regulations.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe mist or vapour. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed. Store in a cool and well-ventilated place. Store away from incompatible materials (See section 10)

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters

Follow standard monitoring procedures

Occupational exposure limits

No exposure limits noted for ingredient(s)

Biological limit values

No biological exposure limits noted for the ingredient(s)

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas. Provide eyewash station.

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Individual protection measures, such as personal protective equipment

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Hand Protection: Wear chemical resistant protective gloves (example EN 374)

Eye/Face Protection: Wear approved safety glasses with side shields or goggles. Face Shield

Ventilation: General ventilation is required

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove containments.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

- Appearance Clear Liquid
 - Physical State Liquid
 - Form Liquid
 - Colour Clear
- Odour Odorless
- Odour threshold Not Available
- pH 11.3
- Melting point/ freezing point Not applicable
- Initial boiling point and boiling range Not applicable
- Flashpoint Non flammable
- Evaporation rate Not applicable
- Flammability (Solid, gas) Not applicable
- Upper/lower flammability or explosive limits
 - Flammability limit – lower (%) Not Available
 - Flammability limit – upper (%) ... Not Available
- Vapour Pressure Not Available
- Vapour Density Not Available
- Relative Density Not Available 1.39
- Solubility(ies)
 - Solubility (water) Soluble in water
- Partition coefficient (n-octanol/water) Not Available
- Auto-ignition temperature Not Available
- Decomposition temperature Not Available
- Viscosity Not Available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong acids.
Hazardous Decomposition Products	Silicon Oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	In high concentrations, vapours may be irritating to the respiratory system
Skin Contact	Causes skin irritation
Eye Contact	Causes serious eye damage.
Ingestion	Ingestion may cause irritation and malaise.

Symptoms related to exposure

Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute Toxicity May cause discomfort if swallowed

Components	Species	Test Results
Sodium silicate (CAS 1344-09-8)		
Acute <i>Dermal</i> LD50	Rate	>5000 mg/kg
<i>Inhalation</i> LC50	Rate	>2.06mg/l, 4 hours
<i>Oral</i> LD50	Mouse Rat	6600 mg/kg 1500-2200 mg/kg 500mg/kg

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Skin corrosion/ irritation	Causes skin irritation
Serious eye damage/ eye irritation	Causes serious eye damage.
Respiratory or skin sensitisation	
Respiratory sensitisation	No data available
Skin sensitisation	Not a skin sensitiser
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity – repeated exposure	
No data available	
Specific target organ toxicity – repeated exposure	
No data available	
Aspiration	No data available
Chronic effects	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Other information	No other specific acute or chronic health impact noted.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bio accumulative potential

No data available for this product.

Mobility in soil

The product is soluble in water.

Mobility in general

The product is soluble in water.

Other adverse effects

No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Residual Waste

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14 – TRANSPORT INFORMATION

- **ADG**
Not regulated as dangerous goods
- **RID**
Not regulated as dangerous goods
- **IATA**
Not regulated as dangerous goods
- **IMDG**
Not regulated as dangerous goods
- **Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code**
Not Applicable

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations

National Regulations – This Safety Data Sheet was prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals.

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Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated

Australia Medicines & Poisons Appendix C

Sodium Silicate (CAS 1344-09-8)

For domestic use.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated

Australia Medicines & Poisons Appendix E

Sodium Silicate (CAS 1344-09-8)

For advice, contact a Poisons information Centre (Phone e.g. Australia 131 - 126; New Zealand 03 - 4747 - 000) or a doctor (at once)., If swallowed, do NOT induce vomiting., If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes., If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Australia Medicines & Poisons Appendix F

Sodium silicate (CAS 1344-09-8)

applies to all preparations in any concentration Strongly alkaline. Avoid contact with eyes., Avoid contact with skin.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Sodium silicate (CAS 1344-09-8)

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 6

Sodium silicate (CAS 1344-09-8)

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Sodium silicate (CAS 1344-09-8)

10000 - 99999 TONNES See the regulation for additional information.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

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Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country (s) or region	Inventory Name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16 – OTHER INFORMATION

Contact Person/ Point	FOR EMERGENCIES ONLY CONTACT	: Australia	: 000
	POISONS INFORMATION CENTRE	: Australia	: 131 126
		: New Zealand	: 0800 764 766

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Version 04

Additional Information

Key/ Legend to abbreviations and acronyms used in the SDS

ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
ACGIH	American Conference of Governmental Industrial Hygienists
ASCC	Australian Safety and Compensation Council
ATE	Acute Toxicity Estimates
BEI®	Biological exposure indices (BEI) are values used for guidance to assess biological monitoring results. With respect to chemical exposure, biological monitoring is the measurement of the concentration of a chemical marker in a human biological media that indicates exposure. They are not developed for use as legal standards.
Carcinogen Category Number	<ol style="list-style-type: none">1. Established human carcinogen2. Probably human carcinogen3. Substances suspected of having carcinogenic potential
Code AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
EPG	Emergency Procedure Guide (superseded by IERG)
DNEL	Derived No-effect Level
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HCIS	The Hazardous Chemical Information System (HCIS) is a database of information on chemicals that have been classified in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). HCIS replaces the previous Hazardous Substance Information System (HSIS).
HSDB	Hazardous Substance Data Bank

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HSIS	HSIS is a database of information on substances classified in accordance with Australia's previous hazardous substance classification system, the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)].
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IERG	HB 76-2004 Dangerous goods - Initial Emergency Response Guide
IMDG	International Maritime Dangerous Goods. A uniform code for transport of dangerous goods at sea.
LEL	lower flammable (explosive) limits in air;
LD50	Lethal Dose sufficient to kill 50% of test population
NIOSH	National Institute for Occupational Safety and Health the United States federal agency responsible for conducting research and making recommendations for the prevention of work-related injury and illness.
NOAEL	No Observed Adverse Effect Level
NOEL	No Observable Effect Level
NOHSC	National Occupational Health and Safety Commission
NTP	National Toxicology Program (USA)
PEL	Permissible Exposure Limit
RTECS	Registry of Toxic Effects of Chemical Substances (Symyx Technologies')
TCLo	Toxic Concentration Low
TDLo	Toxic Dose Low : lowest dosage per unit of bodyweight (typically stated in milligrams per kilogram) of a substance known to have produced signs of toxicity in a particular animal species.
TLV	Threshold Limit Value (ACGIH):The time weighted average used to describe exposure which is harmless to most of the population when exposed 8 hours per day, 40 hours per week.
TWA	(Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
SAFework	Independent statutory agency with primary responsibility to improve occupational health and safety and workers' compensation arrangements across Australia.
STEL	(Short Term Exposure Limit): The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UEL	upper flammable (explosive) limits in air;
UN Number	United Nations Number
VOC	Volatile Organic Content - defined as : 'any chemical compound based on carbon chains or rings with a vapour pressure greater than 0.1mm of mercury (Hg) or 0.0135Kpa at 25°C. This definition excludes reactive diluents, which are designed to be chemically bound into the cured film. It also includes all constituents >0.5% by volume of formulation, which are organic compounds with a boiling point < 250°C.'

Literature references.

Sources for data.

Safety Data Sheets from Suppliers
Hazardous Chemical Information System (HCIS) - ASCC Australia (on-line) GHS (Globally Harmonised System of Substance Classification & Labelling) REACH (European Chemical Substance Information System)
ADG Code Ed 7.7
SUSMP No 34

SECTION 17 – DISCLAIMER

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since CONCORD SEALERS cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact CONCORD SEALERS at the contact details on page 1. CONCORD SEALERS responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request. CONCORD SEALERS however makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof and assumes no responsibility for injury to buyer or third persons or for any damage to property, buyer assumes all risks