



# Concrete Tool Importers Ltd

**PRODUCT:** Day1 Finishing Aid

**Issue Date:** 01/06/23

## **SAFETY DATA SHEET (SDS)**

### **SECTION 1: INFORMATION**

**Product Name:** Day1 Finishing Aid  
**Product Code:**

**Recommended Uses:** Extends workability time of concrete in hot, dry and windy conditions, hardens and densifies concrete.

**Company Contact:** Concrete Tool Importers Ltd  
76a Oxford St  
Richmond  
Nelson 7020

**Customer Service Toll Free Number:**  
0800 727 333  
(Mon-Fri 7:30am-5:00pm)  
[sales@concretetools.co.nz](mailto:sales@concretetools.co.nz)  
[www.concretetools.co.nz](http://www.concretetools.co.nz)

**EMERGENCY TELEPHONE NUMBER**  
0800 POISON (0800 764 766)

New Zealand Fire Service - 111

### **SECTION 2: HAZARD IDENTIFICATION**

This material is hazardous according to health criteria of ERMA New Zealand

**Signal Word** **Non-Hazardous**

**Hazard classification:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Global Harmonized System (GHS).

**Emergency Overview:** Health injuries are not known or expected under normal use.

**Physical state:** Liquid

**Appearance:** Cloudy liquid  
**Odour:** Slight

### SECTION 3: PHYSICAL COMPOSITION

| Chemical Entity<br>Proportion | CAS No             |
|-------------------------------|--------------------|
| Coloidal Silica               | Proprietary 10-60% |

The exact percentage(concentration) of composition has been withheld as a trade secret.

### SECTION 4: FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poison Information Centre. 0800 764 766

#### First Aid measures:

**Inhalation:** Remove to fresh air.  
If experiencing respiratory symptoms, e.g. coughing does not subside, or if feeling unwell, immediately call the Poison Centre or a doctor.

**Skin contact:** Remove contaminated clothing. Flush skin with plenty of water followed by washing with soap and water.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Give water to drink. Immediately call the Poison Centre or a doctor for advice

**Eye Contact:** Rinse cautiously with water for 15 minutes Remove contact lenses if present and easy to do so after first 5 minutes. Continue rinsing for at least 15 minutes ensuring all particles are removed from under eyelids. Immediately call the Poison Centre or a doctor for advice.

**Work place facilities:** Recommended on site emergency facilities: Eye washing facility required.

### SECTION 5: FIRE FIGHTING MEASURES

**Type of Hazard:** Non-flammable or combustible solid

**Fire Hazard properties:** Non specified toxic gases may be emitted

**Extinguishing media & method:** Extinguish fires based on surrounding materials

**Recommended protective clothing:** Fire fighters should wear full protective clothing and self-contained breathing apparatus.

**Hazchem Code:** None allocated

**Specific hazards arising from chemical:** Thermal decomposition can lead to the release of irritating gases and vapours. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>)

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation, especially in confined areas.

**Spill Cleanup methods:** Wear PPE as detailed in Section 8. Evacuate all unnecessary personnel.

**Minor spill:** Prevent further leakage or spillage if safe to do so. Protect any drains with bunding. Mop up spillage and dispose of responsibly.

**Major spill:** Prevent further leakage or spillage if safe to do so. Protect any drains with bunding and mop or soak up, place in a container to dispose of in a responsible manner. Clean area thoroughly observing environmental regulations.

## SECTION 7 HANDLING & STORAGE

**Handling:** Keep out of reach of children  
Read label before using  
Handle in accordance with good industrial hygiene and safety practice.  
Wash hands thoroughly after handling  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective clothing

**Storage Site Requirements:** Store between 4-38°C in a dry area, preferably off the floor, on timber dunnage or a timber pallet. Do not allow the product to freeze. Rotate stock to ensure the oldest is used first. Stock older than 12 months should not be used.

**Packaging:** 5litre Jerry Can, 20 litre Jerry Can

**Incompatible Materials:** None known based on information supplied.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Workplace Exposure Guidelines

#### Work place exposure standards

| Substance        | TWA                                                         |                                                        |
|------------------|-------------------------------------------------------------|--------------------------------------------------------|
|                  | ppm                                                         | mg/m <sup>3</sup>                                      |
| Colloidal Silica | 20mppcf<br>(80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA | IDLH: 3000mg/m <sup>3</sup><br>TWA: 6mg/m <sup>3</sup> |

**Application in the work place** Use with adequate natural ventilation. Use mechanical sprayer to apply

#### Engineering Controls

Hierarchy of controls Where possible ventilation should be used to maintain the environment below the Workplace Exposure Standard  
Showers  
Eyewash Station

#### Personal Protective Equipment (PPE)

## Detail specifications for equipment

### Clothing:



Suitable workwear should be worn to protect personal clothing, e.g. cotton overalls buttoned at the neck and wrists. When large quantities are handled PVC plastic or rubber aprons and boots are recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing

### Hand Protection:



Wear gloves of impervious material. Incidental contact/splash protection: PVC, Nitrile or neoprene rubber gloves. Final choice of appropriate gloves will vary according to individual circumstances, i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 Occupational protective gloves – Selection, use and maintenance.

### Eye Protection:



Safety glasses with side shields, goggles or full face shield as appropriate are recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances, i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with AS/NZS1337 – Eye Protection for Industrial Applications

### Respiratory Protection:



If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to AS/NZS1715 Selection, Use and Maintenance of Respiratory Protective Devices and AS/NZS1716, Respiratory Protective Devices

### General hygiene:



It is essential that all come into contact with this material maintain a high standard of personal hygiene, i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

|                  |                |
|------------------|----------------|
| Appearance:      | Cloudy Liquid  |
| Odour:           | Slight odour   |
| Colour:          | White          |
| Melting Point:   | 0°C            |
| Boiling point:   | 100°C          |
| Vapour Pressure: | Not applicable |

|                                 |                           |
|---------------------------------|---------------------------|
| Solubility in water:            | No information available  |
| Weight per cubic metre:         | Not information available |
| Flammability Class:             | Not flammable             |
| Extinguishing Media:            | Not applicable            |
| Specific Gravity:               | 1.00-1.20                 |
| Freezing Point:                 | Not applicable            |
| Percent Volatile:               | Not applicable            |
| Evaporation Rate:               | Not applicable            |
| PH (% in water):                | 9.5 to 10.5 (in solution) |
| Flash Point:                    | Not applicable            |
| Auto Ignition Temp:             | Not applicable            |
| Coefficient of cubic expansion: | Not applicable            |
| Relative vapour Density:        | Not applicable            |
| Density:                        | 8.9 to 9.1 @ 22.22°C      |
| Decomposition point:            | Not applicable            |
| Viscosity:                      | Not available             |
| Electrostatic generation:       | Not applicable            |
| % volatile by volume:           | Not applicable            |
| Flammable Limits:               | Not flammable             |
| Explosion Hazard:               | Not flammable             |

## SECTION 10 STABILITY AND REACTIVITY

|                                  |                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Stability of the substance       | Acidic, Cationic, and salt materials may gel the product.                                                                               |
| Conditions to avoid              | Do not mix with other materials unless advised by supplier. Freezing conditions will damage product.                                    |
| Material to avoid                | None known based on information supplied                                                                                                |
| Hazardous decomposition Products | Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ) |
| Hazardous polymerization         | Not known to polymerize                                                                                                                 |

## SECTION 11 TOXICOLOGICAL INFORMATION

### General: Acute Effects

|                     |                                                |
|---------------------|------------------------------------------------|
| <b>Ingestion:</b>   | No known effect based on information supplied. |
| <b>Eye contact:</b> | No known effect based on information supplied. |
| <b>Inhalation:</b>  | No known effect based on information supplied. |
| <b>Skin</b>         | No known effect based on information supplied. |

### Long Term Effects:

#### Acute Toxicity/Chronic Toxicity

|                                   |                                              |
|-----------------------------------|----------------------------------------------|
| <b>Skin corrosion/irritation:</b> | Not classified (Based on mixture components) |
|-----------------------------------|----------------------------------------------|

**Serious eye damage/eye irritation** Not classified. (Based on mixture components) Main component: There were weakly irritating effects on the conjunctivae only: redness score 2 (of 4) in all animals after 1 hour, score 2 and 1 after 24 hours and reversible by 72 hours. Chemosis and discharge was very slight only 1 hour after application (score 1). Not Sufficient for classification.

**Sensitization:** Not classified. This product does not contain any known sensitizers at levels > or equal to 0.1%

|                               |                             |
|-------------------------------|-----------------------------|
| <b>Carcinogenicity</b>        | IARC Group3, Not classified |
| <b>Reproductive Toxicity</b>  | Not classified              |
| <b>Germ Cell Mutagenicity</b> | Not classified              |
| <b>STOT/SE</b>                | Not classified              |
| <b>STOT/RE</b>                | Not classified              |
| <b>Aspiration</b>             | Not classified              |

#### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

|                 |                 |
|-----------------|-----------------|
| ATEmix (oral)   | 12833 mg/kg     |
| ATEmix (dermal) | 5133 mg/kg mg/l |

### **SECTION 12 ECOLOGICAL INFORMATION**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Ecotoxicity</b>                    | This product has not been fully evaluated on the product level |
| <b>Persistence and degradability:</b> | No information available                                       |
| <b>Bioaccumulation:</b>               | No information available                                       |
| <b>Other adverse effects:</b>         | No information available                                       |

### **SECTION 13 DISPOSAL CONSIDERATIONS**

Disposal information

Reuse or recycle dry uncontaminated product where possible. Alternatively, either allow slurries to harden then dispose of as concrete (non-hazardous waste), or ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Do not dispose of into sewerage systems or surface waters.

Dispose of empty packaging by incineration or to landfill according to requirements of local and national regulations.

### **SECTION 14 TRANSPORT INFORMATION**

|                      |                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------|
| Relevant information | This substance is not classified as a dangerous good in New Zealand according to AS/NZS5433:2012 |
|----------------------|--------------------------------------------------------------------------------------------------|

**Road & Rail**

This substance is not classified as a dangerous good in New Zealand according to AS/NZS5433:2012

**Marine**

This substance is not classified as a dangerous good in New Zealand according to AS/NZS5433:2012

**Air Transport**

This substance is not classified as a dangerous good in New Zealand according to AS/NZS5433:2012

**SECTION 15 REGULATORY INFORMATION**

EPA Approval: Not regulated

**SECTION 16 OTHER INFORMATION**

Issue Date: 01/06/23

Review Date: 01/06/28

Note: *All information given by Concrete Tool Importers Ltd is offered in good faith and is, to the best of our knowledge, true and accurate. However, since conditions of use are beyond our control, all information relevant to usage is offered without warranty or guarantee and should not be construed as a representation that the product is suitable for any particular purpose or application.*

**CONCRETE TOOL IMPORTERS LTD. 76A OXFORD ST. RICHMOND. NELSON.**

**[www.concretetools.co.nz](http://www.concretetools.co.nz)**