

Designer Accelerant 35

Safety Data Sheet according to SWA and ADG requirements:

Issue Date: 10 January 2022

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier:

Product Name: Product Code: Other means of identification: Designer Accelerant 35 Not Available Calcium Chloride Solution (CaC12)

Relevant identified uses of the substance or mixture and uses advised against:

Accelerant admixture for use with Designer Concrete CRS3000 Resurfacing System to advance material hard-set when ambient temperature is below 15°C and usually associated with wintertime application conditions. The product is not suitable for use as an accelerant admixture for in situ concrete/steel reinforced slab construction.

Details of the supplier of the safety data sheet:

Registered Company Name:	Designer Concrete Coatings Pty Ltd
Address:	19 Liverpool Street, Ingleburn, NSW, 2565, Australia
Telephone:	+61 2 9829 3311
Fax:	+61 2 9829 3544
Website:	www.designerconcrete.com.au
Email:	sales@designerconcrete.com.au
Emergency telephone number:	Not Available
Association / Organisation:	Australia: (02) 9829 3311 (Business Hours)
Emergency telephone number:	Australia: 000 (24-hours):
Other emergency telephone numbers:	Poisons Schedule (Aust): Not Scheduled

SECTION 2: HAZARDS IDENTIFICATION

This material is classified as hazardous according to health criteria of Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Signal Word: Warning: GHS Pictogram: Harmful/Irritant



Hazard Statement(s

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H319		Causes Serious Eye Damage.

Precautionary Statement(s) Prevention

P103	Read label before use
P264	Wash hands, face and all exposed skin thoroughly after handling
P280	Wear eye / face protection

Precautionary Statement(s) Response

P305+351+338	If IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses if present and easy to do – continue rinsing
P337+313	If eye irritation persists seek medical advice / attention

Precautionary Statement(s) Storage

P405	Store locked-up
P403+233	Store in a well ventilated place. Keep container tightly closed.

Precautionary Statement(s) Disposal

Poisons Schedule:	Not Scheduled.
P501	Dispose of contents / container in accordance with local, regional, national
	and international regulations

DANGEROUS GOODS CLASSIFICATION:

NOT classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

CLASS: Not Applicable

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical Entity:	CAS Number	Proportion %
Calcium Chloride:	10043-52-4	25.0 – 60.0
Water:	7732-18-5	to 100

SECTION 4: FIRST AID MEASURES

Facilities should be available where this product is used to carry out first aid procedures.

Description of Necessary First Aid Measures:

Inhalation:

Inhalation of vapour / mist / spray from this product may have an immediate or delayed effect to irritate, inflame or sensitise the nose, throat and lungs; and, exacerbate pre-existing conditions such as asthma and bronchitis.

If an irritation occurs, the affected parties should be moved (or move themselves) away from the product or its emissions into a source of fresh air. Prostheses such as false teeth, which may block the airways, should be removed where possible prior to initiating first aid procedures. Professional medical attention should be sought if symptoms persist.

Skin Contact:

Skin contact with this product may lead to immediate or delayed skin irritations and in susceptible people skin sensitisation, dermatitis and/or skin infection.

The affected areas should be washed thoroughly with mild soap and lukewarm water as quickly as possible.

Eye Contact:

In the event that this material comes into contact with the eyes it may have an immediate or delayed irritating effect resulting in redness, watering and/or infection.

Eyes should be immediately and thoroughly flushed with lukewarm water for as long as necessary to alleviate the problem (or for at least 15-minutes). Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Removal of contact lenses after an eye injury should only be conducted. Professional medical assistance should be sought if symptoms persist.

Ingestion:

Swallowing this product may cause immediate or delayed abdominal discomfort and potentially increase the risk of gastro-intestinal infections.

The patient should be given water to drink and medical attention should be sought if any abdominal symptoms occur. Vomiting should not be induced, but if vomiting occurs the patient should be leant forward or placed on their left hand side to maintain an open airway.

Advice for First Aiders:

Refer to Section 7: Precautions for Safe Handling. Contact Poisons Information Centre 131 126 or doctor at once.

Medical Attention:

Treat symptomatically. No information available on medical conditions aggravated by exposure to this product.

SECTION 5: FIREFIGHTING MEASURES:

Extinguishing Media:

Flammability: This product is a non-flammable liquid.

Suitable Extinguishing Media:

Carbon Dioxide, dry chemical, foam, water fog or water mist.

Specific Hazards / Hazards from Combustible Products:

Non combustible material. However, heating can cause expansion or decomposition leading to rupture of containers.

Special Protective Equipment and Precautions for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus operated in positive pressure mode when fighting fire (as for other material present). Fight fire from a safe location.

Hazchem Code: None Allocated

SECTION 6: ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:

In the event of a spill or release of the product from transport vehicle or storage area in a sensitive environment including near water bodies:

- 1. Advise the applicable state-based road authority
- 2. Advise the applicable state-based environment body
- 3. Advise the product manufacturer/supplier emergency contact: (02) 9829 3311 (Business Hours)

Methods and Materials for Containment and Clean-Up Procedures:

In the event of a spill or release of the product from a transport vehicle or storage area where containment does not exist in order to isolate and clean up:

Secure the site by:

- Covering the spill with an inert absorbent material in order to contain and protect against vapour emissions and gravitational flows into waterways.
- Cover drains to protect against over-ground run-off into waterways, surrounding land and drainage systems.
- Clean up the spill immediately once the site is secured. Avoid generating vapour.
- Collect the material in suitable marked containers, load, and transport and store all of the material released for use as planned or dispose of safely in a landfill or licensed recovery facility.
- Check the surrounding area to ensure all material has been captured. Collect all material if possible or seek advice from state-based environment body.

Other Advice:

- Wear suitable personal protective equipment and clothing to prevent exposure.
- Increase ventilation if spill occurs in an indoors storage situation.
- Immediately switch off any electrical equipment that may come into contact with the spill.
- Spillage can be slippery. Dries to form glass film which can easily cut skin. When contamination is contained and neutralised, flush area with copious amounts of water and mop up. Do not flush to drains or sewer.

Dangerous Goods – Initial Emergency Response Guide Not Applicable

SECTION 7: HANDLING AND STORAGE:

Precaution(s) for Safe Handling:

This product is hazardous. When handling this material ensure that workers stay away from equipment that is moving and/or processing exposed material and avoid coming into contact with the product by wearing:

- A suitable respiratory protective device conforming to AS/NZS 1715:2009 Selection, use and maintenance of respiratory protective devices. A Class P1 Particulate Respirator is typically most appropriate.
- Suitable gloves conforming to AS/NZS 2161:2008 Occupational Protective Gloves. Standard duty leather/pigskin, rubber or neoprene gloves are typically most appropriate.
- Full length protective trousers and shirts (or overalls).
- Suitable boots for the site.
- Suitable eye protection conforming to AS/NZS 1336: 1997 Recommended practises for occupational eye protection.

Additional Safe Handling Procedures Should Include:

- Limit exposure to the product
- Wash any areas of the body that the product may have come into contact after exposure.
- Regularly vacuum enclosed areas where the product is used or install a vapour extraction system.
- When handling this material ensure the environment is protected from releases.
- As with all vapour generating materials, ensure adequate ventilation against the relevant exposure standards (Section 8) and also to prevent the spread of vapours into the workplace environment that may risk the health and safety of others.
- Shower and change after completion of product use for its intended purpose.
- Wash hands and face after handling and after completion of product use for its intended purpose.

Conditions for Safe Storage:

When storing this material:

- Store in closed containers and in well ventilated areas to prevent vapour release & exposure to the product. Store away from incompatible materials.
- Storage Temperatures: 0°C to 95°C. Avoid freezing.
- Loading Temperature: 45°C to 95°C
- The product is packaged in recommended plastic material containers. Do not re-dispense or store in containers comprising of (or allow contact with) aluminium, fibreglass, tin, lead, zinc, copper, brass, or galvanised materials.

This material is **NOT classified as a Dangerous Good** under the criteria of Australian Dangerous Goods Code.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION:

National Exposure Standards:

No specific exposure standards have been allocated. However due to vapour emission inherent in the product, concentrations for monitoring exposure should be observed and precautionary Standards as listed below:

Control Parameters:

	TWA ¹		STEL ²	
	ppm	mg/m3	ppm	mg/m3
Total Inhalable Dust	-	10	-	-
National Health and				
Safety Commission, 2004				

¹Time Weighted Average concentration

² Short-Term Exposure Limit.

These exposure 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 concentration of dust/vapour. They are not a measure of relative toxicity. If the direction for use stated on the product label is followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers' routinely, potentially exposed during product manufacture.

Total Respiratory Dust:

2mg/m³ (American Conference of Government Occupational Hygienists, 1986)

Biological Limit Values:

As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Controls:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. DO NOT enter confined spaces where inhalable vapour may have collected

Exposure Controls:

Personal Protection Equipment (PPE).

G: OVERALL; SAFETY SHOES; SAFETY GLASSES; GLOVES; RESPIRATOR.

PPE: Where engineering controls are not installed to limit airborne exposure, refer to AS/NZS 1715: Selection, use and maintenance of respiratory protective devices; and, AS/NZS 1716: Respiratory Protective Devices. Heavy duty protective suit, gloves (AS/NZS 2161:2008) and foot wear (AS/NZS 2210.5: 2009). Eye protection should conform to AS/NZS 1337: Eye Protectors for Industrial Applications

Hygiene Measures:

Keep away from foodstuffs, drink and animal foodstuffs & feeding troughs. When using the material, do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

Property	Unit of Measurement	Typical Value
Appearance	Not Applicable	Clear Liquid
Odour	Not Applicable	Odourless
Solubility	Not Applicable	soluble in water
Vapour Pressure @ 25°C	kPa	Not Available
Boiling Point	°C	Not Available
% Volatile by Volume	%	Not Available
Melting Point / Range	°C	Not Available
Auto Ignition	°C	Not Applicable
Temperature		
Decomposition Point	°C	Not Available
Flash Point	°C	Not Applicable
Specific Gravity	-	1.33
Flammability	-	None Combustible
		Material
Viscosity (Kinematic &	-	Not Available
Dynamic)		
рН	-	Not Available
Other Information		Not Available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

None known.

Chemical Stability:

This material is stable when stored and used in accordance with this Safety Data Sheet and directions on the product label.

Conditions to Avoid:

Extremes of temperature and direct sunlight.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

Thermal decomposition may result in the release of toxic and/or irritating fumes.

Hazardous Reactions:

None known.

Hazardous Polymerisation:

Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION:

Acute Toxicity – Oral: (Calcium Chloride)

LD50 (rat) : >1000mg/kg

Acute Health Effects:

Ingestion:

Ingestion is unlikely through normal use. However, swallowing any amount of this product may cause immediate or delayed abdominal discomfort causing nausea and vomiting. It is not recommended to repeatedly swallow this product.

Eye Contact:

In the event that any dose of this material or vapour comes into contact with the eyes it may have an immediate or delayed irritating effect resulting in stinging, blurring and watering and other serious eye damage effects.

It is not recommended to repeatedly allow this material to come into contact with the eyes.

Skin Contact:

Any level of skin contact with this product may lead to immediate or delayed skin irritations and in susceptible people with sensitive skin, dermatitis or skin infection.

Primary Dermal Irritation Index (PDII) 3: Abraded Skin.

Primary Dermal Irritation Index (PDII) 0: Intact Skin

It is not recommended for people susceptible to skin irritations to repeatedly allow this material to come into contact with the skin. Human experience confirms that irritation occurs when this material gets on clothes at the collar, cuffs or other areas where abrasion may occur.

Inhalation:

Inhalation of large amounts of vapour/mists from this product may have an immediate or delayed effect to irritate, inflame or sensitise the nose, throat and lungs, and exacerbate pre-existing conditions such as asthma and bronchitis

It is not recommended for people to repeatedly inhale this material.

Respiratory Sensitisation:

Not expected to be a respiratory sensitiser.

Skin Sensitisation:

Not expected to be a skin sensitiser.

Chronic Health Effects:

The repeated inhalation of vapour/mists from this product may lead to respiratory irritation, inflammation or sensitisation in persons with pre-existing illness such as asthma and bronchitis. Repeated contact with eyes can cause serious eye damage. Repeated contact with skin can lead to dermatitis or skin infections. **Contact with this product outside of intended use is not recommended.**

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: No data available

STOT – Single Exposure: May cause respiratory irritation.

STOT – Repeated Exposure:

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard:

Not expected to be an aspiration hazard.

Other Information:

None available

SECTION 12: ECOLOGICAL INFORMATION:

Acute Aquatic Hazard – Fish: No information available

Acute Aquatic Hazard – Daphnia: No information available

Ecotoxicity: No ecological information available for this product

Persistence and Degradability:

No information available

Bioaccumulation Potential:

No information available

Mobility:

No information available

Environment Protection:

Prevent this material entering waterways, drains and sewers.

Other Adverse Effects:

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS:

Disposal Methods:	The disposal of the spilled or waste material must be done in accordance with
	applicable local and national regulations.

Special Precautions for Landfill or Incineration: No information available.

SECTION 14: TRANSPORT INFORMATION:

Road & Rail Transport:

Not classified as Dangerous Goods by criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition) and the New Zealand NZS5433: Transport of Dangerous Goods on Land.

UN No:	None Allocated	
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Proper Shipping Name:	Calcium Chloride Solution
DG Class:	Not Applicable
Subsidiary Risk:	Not Applicable
Packaging Group:	Not Applicable
Hazchem Code:	Not Applicable
Initial Emergency Response Guide:	Not Applicable

Precautionary Measures: Not to be loaded with explosives (Class 4); Flammable gasses (Class 2.1), if both are in bulk: Toxic gasses (Class 2.3); Spontaneous combustible substances (Class 4.2); Oxidising agents (Class 5.1); Organic peroxides (Class 5.2); or, Radioactive substances (Class 7) albeit some exemptions may apply.

Other Special Storage or Transport Information: Transport in covered container and avoid exposure to direct sunlight and exposure to conditions where the product may freeze.

Marine Transport:

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code. The product is not considered a marine pollutant.

UN No:	None Allocated
Proper Shipping Name:	Calcium Chloride Solution
DG Class:	Not Applicable
Packaging Group:	Not Applicable

Air Transport:

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for Transport by Air.

UN No:	None Allocated
Proper Shipping Name:	Calcium Chloride Solution
DG Class:	Not Applicable
Packaging Group:	Not Applicable

SECTION 15: REGULATORY INFORMATION:

Classified as **Hazardous** according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Safe Work Australia classifications.

Poisons Schedule: None Allocated

SECTION 16: OTHER INFORMATION:

Revision Requirement: Re-issue 10 Jan. 22 Information updates of all sections to comply with Code of Practice Safe Work Australia December 2011.

Abbreviations:

ADG: Australian Code for Transport of Dangerous Goods by Road and Rail.
CAS Number: Chemical Abstracts Number.
HMIS: Hazardous Materials Identification System.
TWA: Time - Weighted Average airborne concentration over an 8-hour working day, for 5-day working week over an entire working life.
STEL: Short-Terms Exposure Limit; the average airborne concentration over a 15-minute period which should NOT be exceeded at any time during a normal -8-hour working day.
LD50: Lethal Dose, 50% / Median Lethal Dose.
ppm: Parts Per Million.
STOT-RE: Specific Target Organ Toxicity (Repeated Exposure).
STOT-SE: Specific Target Organ Toxicity (Single Exposure)
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.
SWA: Safe Work Australia.
GHS: Globally Harmonised System.

Disclaimer:

This Safety Data Sheet (SDS) has been prepared to the best belief of the manufacturer as to its accuracy and reliability as at the date of issue. No warranty expressed or implied is made as to its full reliability or completeness but is considered the appropriate information required by the user in the context of how the product must be handled and used in the workplace and including in conjunction with other products or materials present. Since the manufacturer cannot anticipate or control the conditions under which this information may or will be used, it is the user's responsibility to determine the safety, risk and fitness-for-purpose of the product under the conditions and environment where the product is intended to be used; and, responsibility to ensure that the SDS issue date is current. This information given is a non-controlled document and Designer Concrete Coatings Pty Ltd shall not be liable for personal injury or property damage associated with use or misuse of the product.