

SAFETY DATA SHEET



SIMSHIELD - QUICK DRY

SUPPLIER: SIMSEAL PTY LTD
ADDRESS: Unit 8/33-43 Meakin Road Meadowbrook QLD, 4131
-

SECTION 1 MATERIAL IDENTIFICATION

Product Name: SIMSHIELD - QUICK DRY
Other Names: Simshield Catalyst, Simshield Activator, Weathershield
Uses: Commercial applications
Chemical Family: No Data Available
Chemical Formula: CaCl₂.2H₂O
Chemical Name: Calcium Chloride Dihydrate

Product Description No Data Available
Contact Info: As above;
Poisons Information Centre 131126;

SECTION 2 HAZARD IDENTIFICATION

ADG Code: Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

ASCC Hazard Classification: Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]

Categories: Xi Irritant

Risk Phrases: R36 Irritating to eyes

Safety Phrases

S25 Avoid contact with eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/39 Wear suitable protective clothing and eye/face protection.

HSNO Hazard Classification: 6.1D; 6.3A; 6.4A; 9.3C

Poisons Schedule (Aust): No Data Available

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS

Chemical Entity	Formula	CAS	No Proportion
Calcium Chloride, Dihydrate	No Data Available	10035-04-8	100.0 %

SECTION 4 FIRST AID MEASURES

Description of necessary measures according to routes of exposure:

Swallowed: Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, give further water. Seek medical advice immediately.

This Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The EPA website should be consulted for a full list of triggered controls and cited regulations.

Eye:	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.
Skin:	If skin contact occurs, remove any contaminated clothing and wash skin with running water. If irritation occurs, seek medical advice.
Inhaled:	Remove victim from exposure to fresh air - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm and at rest until fully recovered. Seek medical advice if effects persist.
Advice to Doctor:	Treat symptomatically based on judgement of doctor and individual reactions of patient.

SECTION 5 FIRE FIGHTING MEASURES

Flammability Conditions:	Product is a non-flammable solid.
Extinguishing Media:	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions. Suitable media may include fine water spray, normal foam, or dry agent such as carbon dioxide or dry chemical powder. Keep containers cool with water spray.
Hazardous Products of Combustion:	Non-combustible solid. Negligible fire hazard when exposed to heat or flame. This product does not burn. Incompatible with methyl vinyl ether, bromine trifluoride, acids, bases, water, zinc and sources of ignition. When involved in a fire, this product may generate toxic fumes, including chlorine, oxides of calcium and calcium hydroxide is formed on reaction with strong bases.
Personal Protective Equipment:	Firefighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire-exposed containers from fire area if it can be done without risk. Do NOT allow fire-fighting water to reach waterways, drains or sewers. Store fire-fighting water for treatment. Dike area to prevent runoff and contamination of water sources.
Flash Point:	No Data Available
Lower Explosion Limit:	No Data Available
Upper Explosion Limit:	No Data Available
Auto Ignition Temperature:	No Data Available
Hazchem Code:	No Data Available

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Response Procedure:	Avoid accidents, clean up immediately. Spillage of product creates slippery surfaces. Personnel involved in the clean-up should wear full protective clothing as listed in section 8. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
Clean Up Procedures:	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled

This Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The EPA website should be consulted for a full list of triggered controls and cited regulations.

container and dispose of promptly as hazardous waste. Wash area down with excess water.

SECTION 7 HANDLING AND STORAGE

- Handling:** Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid handling which leads to dust formation. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Instantly remove any soiled and impregnated garments. Launder contaminated clothing before re-use. Keep away from moisture and incompatible materials.
- Storage** Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight and moisture. Prevent formation of dust. The product is hygroscopic and absorbs moisture from the air. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.
- Container:** Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer. SUITABLE: Storage container must be made of corrosion resistant materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- General:** No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for irrespirable dust).
NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working 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.
- Exposure Limits:** No Data Available
- Biological Limits:** No information available on biological limits for this product.
- Engineering Measures:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical State:** Solid
- Appearance:** Solid; Granular; Fine Crystals; Flakes; or Powder.
- Odour:** Odourless
- Colour:** White to Off White
- pH:** 8.0 - 10.0
- Vapour Pressure:** No Data Available
- Relative Vapour Density:** No Data Available
- Boiling/Melting Point:** >1600 °C
- Solubility:** 42.7g/100g Solution °C

This Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The EPA website should be consulted for a full list of triggered controls and cited regulations.

Freezing Point:	176 °C	
Specific Gravity:	1.85g/cm ³ (25'C)	
Flash Point:		No Data Available
Auto Ignition Temp:		No Data Available
Evaporation Rate:		No Data Available
Bulk Density:		No Data Available
Corrosion Rate:		No Data Available
Decomposition Temperature:		No Data Available
Density:		No Data Available
Specific Heat:		No Data Available
Molecular Weight:		No Data Available
Net Propellant Weight:		No Data Available
Octanol Water Coefficient:		No Data Available
Particle Size:		No Data Available
Saturated Vapour Concentration:		No Data Available
Partition Coefficient:		No Data Available
Vapour Temperature:		No Data Available
Viscosity:		No Data Available
Volatile Percent:		No Data Available
VOC Volume:		No Data Available
Additional Characteristics:		No Data Available
Potential for Dust Explosion:		No Data Available
Fast or Intensely Burning Characteristics:		No Data Available
Flame Propagation or Burning Rate of Solid Materials:		No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire:		No Data Available
Properties That May Initiate or Contribute to Fire Intensity:		No Data Available
Reactions That Release Gases or Vapours:		No Data Available
Release of Invisible Flammable Vapours and Gases:		No Data Available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions of use, storage and temperature Hygroscopic. Absorbs moisture from the surrounding air.
Conditions to Avoid:	Avoid excessive heat, generating dust, direct sunlight, moisture, static charges and high temperatures.
Materials to Avoid:	Incompatible with methyl vinyl ether, bromine trifluoride, acids, bases, water zinc and sources of ignition.
Hazardous Decomposition Products:	When involved in a fire, this product may generate toxic fumes, including chlorine, oxides of calcium and calcium hydroxide is formed on reaction with strong bases.
Hazardous Polymerisation:	Polymerisation will not occur. Hygroscopic - absorbs moisture from surrounding air. Metals will slowly corrode in solutions of calcium chloride. Aluminium (and alloys) and yellow brass will be attacked by calcium chloride.

SECTION 11 TOXICOLOGICAL INFORMATION

General Information:	Oral LD50 Rabbit: 1000mg/Kg (33% Liquid)
Eye Irritant:	An eye irritant. Eye contact causes pain.
Ingestion:	No adverse effects expected, however, large amounts may cause nausea and vomiting.
Inhalation:	Breathing in dust may result in respiratory irritation.

This Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The EPA website should be consulted for a full list of triggered controls and cited regulations.

Skin Irritant: Prolonged or repeated skin contact may lead to allergic contact dermatitis in some individuals. The skin may react by producing redness, irritation, weals or pustules.

Carcinogen Category: 0

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Pimephales Promelas LC50/96hr: 4630mg/L Daphnia Magna EC50/48hr: 2400mg/L Selenastrum Capricornutum EC50/72hr: 2900mg/L

Persistence/Degradability: No information available on persistence/degradability for this product.

Mobility: No information available on mobility for this product.
Soluble in water.
Do NOT let product reach waterways, drains and sewers.

ENVIRONMENTAL FATE

Bioaccumulation Potential: No information available on bioaccumulation for this product.

Environmental Impact: No Data Available

SECTION 13 DISPOSAL CONSIDERATIONS

General Information: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill: Contact a specialist disposal company or the local waste regulator for advice.
This should be done in accordance with 'The Hazardous Waste Act'.
This material may be suitable for approved landfill.
For small disposals dilute with a large amount of water and neutralise with acid to about pH 7.

SECTION 14 TRANSPORT INFORMATION

Road & Rail Transport: Not classified as dangerous goods by the criteria of the Australian Dangerous goods code (ADG Code) for transport by road and rail.

Marine Transport: Not classified as Dangerous goods by the criteria of the International Maritime Dangerous Goods code (IMDG Code) for transport by sea.

Air Transport: Not classified as dangerous goods by the criteria of the CASA (Civil Aviation Safety Authority), IATA (International Air Transport Association) and ICAO (International Civil Aviation Organization for transport by air.

SECTION 15 REGULATORY INFORMATION

General Information: No Data Available

EPA (New Zealand)

Hazardous Substances and New Organisms Act (HSNO)

Approval Code: HSR003217

Poisons Schedule (Aust): No Data Available

AICS Name: CALCIUM CHLORIDE, DIHYDRATE

This Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The EPA website should be consulted for a full list of triggered controls and cited regulations.