



# CSR MATERIAL SAFETY DATA SHEET

## RADAR ClimaPlus Ceiling Panels

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	<b>RADAR ClimaPlus Ceiling Panels</b>
<b>Other Names:</b>	USG Acoustical Ceiling Panels and Tiles
<b>Product Codes/Trade Names:</b>	Mineral Wool Acoustical Ceiling Panels
<b>Recommended Use:</b>	Ceiling Panels, Ceilings and Internal Linings
<b>Applicable In:</b>	Australia
<b>Supplier:</b>	CSR Building Products Limited (ACN 008 631 356)
<b>Address:</b>	Trinity 3, 39 Delhi Road, North Ryde, NSW 2113, Australia
<b>Telephone:</b>	+61 2 9235 8000 (or 1800 807 668 (available in Australia only))
<b>Email Address:</b>	<a href="http://www.csr.com.au/Common/Contactus.asp">http://www.csr.com.au/Common/Contactus.asp</a>
<b>Web Site:</b>	www.csr.com.au
<b>Facsimile:</b>	+61 2 9372 5819
<b>Emergency Phone Number:</b>	000 Fire Brigade and Police (available in Australia only)
<b>Poisons Information Centre:</b>	13 11 26 (available in Australia only).

This Material Safety Data Sheet (MSDS) is issued by the Supplier in accordance with National standards and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its MSDS by any other person or organization. The Supplier will issue a new MSDS when there is a change in product specifications and/or ASCC standards, codes, guidelines, or Regulations.

### SECTION 2: HAZARD IDENTIFICATION

**STATEMENT OF HAZARDOUS NATURE:** Classified as **Non-Hazardous** as delivered according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.

**RADAR™ ClimaPlus™** is classified **Non-Dangerous** Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

The product as delivered or used does not release airborne dusts, but cutting or trimming the product may create dust which is classified as **Hazardous**. The following Risk and Safety phrases apply to airborne dust of this product:

<b>Risk Phrases</b>	<b>Safety Phrases</b>
<b>R36/37/38:</b> Irritating to eyes, respiratory system and skin.	<b>S22:</b> Do not breathe dust.
<b>R40/20:</b> Harmful: possible risk of irreversible effects through inhalation.	<b>S24/25:</b> Avoid contact with skin and eyes.
	<b>S36/37/38:</b> Wear suitable protective clothing, gloves and eye/face protection.

CSR MSDS Reference: LWS-SDS-071

Date Issued: 22/07/2008



**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name:	Synonyms	Proportion:	CAS Number:
Slag wool fibre (recycled)	Mineral wool, synthetic mineral fibre (SMF)	<30%	65997-17-3
Expanded perlite	None	>40%	93763-70-3
Paper (recycled)	Cellulose	>15%	9004-34-6
Kaolin	Clay	1-15%	1332-58-7
Starch	None	>10%	9005-25-8
Crystalline silica	Quartz	<5%	14808-60-7
Aluminium foil (where product is available with foil backing)	None	<3%	7429-90-5
Vinyl acetate polymer or Ethylene vinyl acetate polymer (in painted surface coating which is a solvent-free water-based latex paint)	None	1-2%	9003-20-7 24937-78-8

**SECTION 4: FIRST AID MEASURES**

<b>Swallowed:</b>	Rinse mouth out with plenty of water. If irritation or discomfort persists seek medical attention.
<b>Eyes:</b>	Immediately flush thoroughly with water for 15 minutes to remove particulate. If irritation persists seek medical attention.
<b>Skin:</b>	Rinse with cool water and then wash with soap and warm water. If itching persists seek medical attention. Launder clothing before reuse.
<b>Inhaled:</b>	Remove to fresh air. If symptoms persist seek medical attention.
<b>Advice to Doctor:</b>	This product is a mechanical irritant, and is not expected to produce any chronic health effect from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

**SECTION 5: FIRE FIGHTING MEASURES**

<b>Flammability:</b>	Non-flammable
<b>Suitable extinguishing media:</b>	Use carbon dioxide, foam, dry chemical or water spray to extinguish, as required for fire in surrounding materials.
<b>Hazards from combustion products:</b>	None
<b>Special protective precautions and equipment for fire fighters:</b>	As required for fire in surrounding materials.
<b>HAZCHEM Code:</b>	None

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Containment Procedure:</b>	If product is damaged, seal and minimise fibre release.
<b>Clean Up Procedure:</b>	Personnel directly involved in the clean up should wear protective equipment as described in Section 8 to prevent skin and eye contamination. Clean area using vacuum cleaner or wet sweep. Reuse where possible.

**SECTION 7: HANDLING AND STORAGE**

<b>Handling:</b>	Cutting and trimming may result in fibre dislodgement and dust production. Hazard is significantly reduced when cutting the product with a sharp knife. Power tools should not be used without dust extraction. This product, once installed, does not release dust or fibres. Manual handling should be in accordance with Manual Handling Regulations and Codes.
<b>Storage:</b>	Store in a cool, dry, ventilated area away from sources of heat, moisture and acids. Protect product from physical damage.
<b>Incompatibilities:</b>	Acids

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>National Exposure Standards:</b>	<p><b>National Occupational Exposure Standard (NES), Australian Safety &amp; Compensation Council, ASCC (formerly NOHSC)</b></p> <p>Slag wool (SMF): TWA - 0.5 fibres/ml</p> <p>Crystalline silica (quartz): TWA - 0.1 mg/m<sup>3</sup> as respirable dust (<math>\leq 7</math> microns particle equivalent aerodynamic diameter)</p> <p>Non-respirable fibres (inspirable dusts): TWA - 2.0 mg/m<sup>3</sup></p> <p>Total dust (of any type or particle size): TWA - 10 mg/m<sup>3</sup></p>
<b>Notes on Exposure Standards</b>	<p>All occupational exposures to atmospheric contaminants should be kept to as low a level as is workable (practicable) and in all cases to below the National Standard.</p> <p>TWA (Time Weighted Average): the time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.</p>
<b>Biological Limit Values:</b>	No biological limit allocated.
<b>ENGINEERING CONTROLS</b>	
<input type="checkbox"/> <b>Ventilation:</b>	During most applications and installation of this product, no special ventilation will be required. However, if dusty, or in poorly ventilated areas, local exhaust ventilation should be considered. Work practices should aim to minimise the release of, and exposure to, fibres and/or dust. Hand tools generate the least amount of dust and fibres. If power tools are used directly on the product appropriate dust collection systems are recommended.
<input type="checkbox"/> <b>Special Consideration for Repair &amp;/or Maintenance of Contaminated Equipment:</b>	Work areas should be cleaned regularly and vacuuming or wet sweeping is recommended. Recommendations on Exposure Control and Personal Protection should be followed.
<b>PERSONAL PROTECTION</b>	
<input type="checkbox"/> <b>Personal Hygiene:</b>	Washing of exposed skin with soap and water at the end of a shift is recommended. Wash hands before eating, drinking, using the toilet, or smoking. Work clothes should be washed regularly and separately from other clothes.
<input type="checkbox"/> <b>Skin Protection:</b>	Direct skin contact can be minimised by wearing long sleeved shirts and long trousers, a cap or hat, and standard duty gloves conforming to Australian Standard AS 2161.
<input type="checkbox"/> <b>Eye Protection:</b>	When handling product, particularly handling overhead or in enclosed or poorly ventilated areas such as ceiling spaces or risers, eye contact with dust or fibre

	can be avoided by wearing ventilated non-fogging dust resistant goggles conforming to Australian and New Zealand Standards AS/NZS 1336.
<input type="checkbox"/> <b>Respiratory Protection:</b>	When handling product, particularly during work in enclosed or poorly ventilated areas, an approved particulate respirator conforming to Australian and New Zealand Standards AS/NZS 1715 and 1716 is recommended. Use only respirators that bear the Australian Standards mark and are fitted and maintained correctly, and kept in clean storage when not in use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White or coloured surface; beige/grey core
<b>Odour:</b>	Low to no odour
<b>pH, at stated concentration:</b>	Approximately 9
<b>Vapour Pressure:</b>	Not applicable
<b>Vapour Density:</b>	Not applicable
<b>Boiling Point/range (°C):</b>	Not applicable
<b>Melting Point (°C):</b>	1200°C (slag wool)
<b>Solubility:</b>	Immiscible
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	2.9
<b>FLAMMABLE MATERIALS</b>	
<input type="checkbox"/> <b>Flash Point:</b>	Not applicable
<input type="checkbox"/> <b>Flash Point Method:</b>	Not applicable
<input type="checkbox"/> <b>Flammable (Explosive) Limit - Upper:</b>	Not applicable
<input type="checkbox"/> <b>Flammable (Explosive) Limit - Lower:</b>	Not applicable
<input type="checkbox"/> <b>Autoignition Temperature:</b>	Not applicable
<b>ADDITIONAL PROPERTIES</b>	
<input type="checkbox"/> <b>% Volatiles:</b>	<1% (surface coating)
<input type="checkbox"/> <b>Volatile Organic Compounds Content (VOC):</b> (as specified by the Green Building Council of Australia)	<1% (surface coating)

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable
<b>Incompatible Materials:</b>	Acids
<b>Conditions to avoid:</b>	Dust generation, high humidity, moisture, contact with incompatibles.
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Reactions:</b>	None

## SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicology data:** No specific toxicology data available for this product, but toxicity anticipated to be very low with LD50 >10,000 mg/kg. Principal routes of exposure are usually by inhalation of generated dust and skin contact with the material.

Health effects information is based on reported effects in use from overseas and Australian reports.

### Health Effects: Acute (short term)

<b>Swallowed:</b>	Unlikely under normal conditions of use, but swallowing would result in irritation of the gastrointestinal tract, especially the throat and stomach.
<b>Eyes:</b>	Dust may cause eye discomfort resulting in watering, redness and irritation. Exposure to dust may aggravate pre-existing eye conditions.
<b>Skin:</b>	The material is mildly abrasive and may produce discomfort which results in temporary skin irritation. Dust from cutting or destruction of product may irritate the skin resulting in itching and occasionally a red rash. The rash is not allergic and usually disappears quickly.
<b>Inhaled:</b>	The dust may cause discomfort and irritation of the nose, throat and respiratory tract, especially in those suffering from upper respiratory or chest complaints such as hay fever, asthma or bronchitis.

### Health Effects: Chronic (long term)

<b>Skin:</b>	Prolonged and repeated skin contact may result in dermatitis (redness and skin irritation).
<b>Inhaled:</b>	Repeated exposure to the dust may result in increased nasal and respiratory secretions and coughing. Inflammation of lining tissue of the respiratory system may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia.

### Additional Notes

<b>Long Term Effects:</b>	Long term occupational over-exposure or prolonged breathing-in (or inhalation) of crystalline silica dust at levels above the NES carries the risk of causing serious and irreversible lung disease, including bronchitis, and silicosis (scarring of the lung), including acute and/or accelerated silicosis. It may also increase the risk of other irreversible and serious disorders including scleroderma (a disease affecting the skin, joints, blood vessels and internal organs) and other auto-immune disorders. ASCC/NOHSC has not classified crystalline silica as a carcinogen.  ASCC/NOHSC has not classified slag wool fibre as a carcinogen.
<b>Special Toxic Effects:</b>	Inhalation of dust, including crystalline silica dust, is considered by medical authorities to increase the risk of lung disease due to tobacco smoking.

## SECTION 12: ECOLOGICAL INFORMATION

<b>Eco-toxicity:</b>	No known adverse ecological effects.
<b>Persistence and Degradability:</b>	Product is persistent and would have a low degradability.
<b>Mobility:</b>	A low mobility would be expected in a landfill situation.

## SECTION 13: DISPOSAL CONSIDERATIONS

Reuse where possible, or product can be treated as a common waste for disposal or dumped into a landfill site in accordance with local authority guidelines. Measures should be taken to prevent dust generation during disposal and exposure and personal precautions should be observed (see Section 8 above).

**SECTION 14: TRANSPORT INFORMATION**

<b>Proper Shipping Name:</b>	None allocated
<b>UN number:</b>	None allocated
<b>DG Class:</b>	None allocated
<b>Subsidiary Risk 1:</b>	None allocated
<b>Packaging Group:</b>	None allocated
<b>HAZCHEM code:</b>	None allocated
<b>Marine Pollutant:</b>	No
<b>Special Precautions for User:</b>	None

**SECTION 15: REGULATORY INFORMATION**

<b>Poisons Schedule:</b>	Not scheduled
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**SECTION 16: OTHER INFORMATION****For further information on this product, please contact:**

CSR Building Products Limited (ABN 55 008 631 356), 9 Help Street, Chatswood NSW 2067, Australia.

**Phone:** +61 2 9235 8000

**Fax:** +61 2 9372 5819

**ADDITIONAL INFORMATION****Australian Standards References:**

AS/NZS 1336	Recommended Practices for Occupational Eye Protection
AS/NZS 1715	Selection, Use and Maintenance of Respiratory Protective Devices
AS/NZS 1716	Respiratory Protective Devices
AS 2161	Industrial Safety Gloves and Mittens (excluding electrical and medical gloves)

**Other References:**

NOHSC:2011(2003)	National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition, April 2003, National Occupational Health and Safety Commission.
NOHSC:10005(1999)	List Of Designated Hazardous Substances, April 1999, National Occupational Health and Safety Commission, Sydney.
NOHSC:2007(1994)	National Code of Practice for the Control of Workplace Hazardous Substances (Australian States have similar Codes of Practice in each State).
NOHSC: 2012(1994)	National Code of Practice for the Labelling of Workplace Substances, March 1994, Australian Government Publishing Service, Canberra.
NES	National Occupational Exposure Standards for Workplace Atmospheric Contaminants (NES) Australian Safety and Compensation Council, ASCC (formerly NOHSC) 1995 as amended.
ADG Code	Australian Dangerous Goods Code 6 <sup>th</sup> Edition.

**AUTHORISATION**

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END OF MSDS