

Material Safety Data Sheet

NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

- **Product name:** ARMSTRONG CEILING PANELS: Optima & Optra:
- **Recommended use:** Panels to reduce noise, improve heating and cooling efficiency for domestic, commercial and industrial buildings.
- **Supplier:** Armstrong World Industries Pty Ltd
- **ABN:** 58 000 361 679
- **Street Address:** 99 Derby Street, Silverwater NSW 2128
- **Telephone:** +612 9748 1588
- **Facsimile:** +612 9748 7244
- **Emergency telephone number:** 0412 736 154

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Mineral wool (slagwool)	-	Approx. 95%
Ingredients determined to be non-hazardous	-	Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Telephone Australia 131 126, New Zealand 0800 764 766).

- **Inhalation:** Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
- **Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance
- **Eye contact:** If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.
- **Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.
- **Notes to physician:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- **Specific hazards:** Non-combustible material.
- **Fire fighting further advice:** Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.
- **Hazchem Code:** Not applicable.
- **Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of fibres.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Handle these materials carefully to minimise airborne dust.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for: Synthetic mineral fibres 0.5 fibres/ml.

ppm	TWA	mg/m ³	ppm	STEL	mg/m ³	CARCINOGEN	NOTICES
-	0.5 fibres/mL	-	-	-	-	-	-

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA – The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

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.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too 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. If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

- **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 measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. Natural ventilation should be adequate under normal use conditions.
- **Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form / Colour / Odour:** Ceiling panels, white with light grey substrate with no odour.
 - **Solubility:** Insoluble in water
 - **Specific Gravity (20°C):** *Varies by product*
 - **Relative Vapour Density (air=1):** *N App*
 - **Vapour Pressure (20°C):** *N App*
 - **Flash Point (°C):** *N App*
 - **Flammability Limits (%):** *N App*
 - **Autoignition Temperature (°C):** *N App*
 - **Melting Point/Range (°C):** *N App*
 - **Boiling Point/Range (°C):** *N App*
 - **pH:** *N App*
 - **Viscosity:** *N App*
 - **Total VOC (g/Litre):** *N App*
- (Typical values only – consult specification sheet)*
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

- **Acute Effects**
 - **Inhalation:** Material may be irritant to mucous membranes and respiratory tract.
 - **Skin contact:** Repeated or prolonged skin contact may lead to irritation.
 - **Eye contact:** May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.
 - **Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
- **Long Term Effects**
No information available for product.
- **Acute toxicity/Chronic toxicity**
Armstrong has used historical in vivo studies as the basis for developing predictive models that relate the chemistry of man-made mineral fibres to biopersistence. The results of the predictive models indicate that the material fibres used by Armstrong to produce ceiling products sold in Australia would pass the exoneration criteria established in the European Union Directive 97/69/EC (Note Q).

Quality assurance procedures are in place to control the chemistry of the fibres and ensure that they remain constant within the guidelines established by the European Certification Board for Mineral Wool Products. In addition, audit procedures are in place to periodically test for conformation and ensure continued compliance with the biopersistence requirements that enable the exoneration of Armstrong products from classification and labelling. Armstrong declares that the mineral fibres used by Armstrong to produce ceiling products sold in Australia meet the low biopersistence set by the European Union under EC No 1272/2008. Note: Safe Work Australia have adopted EC No 1272/2008 as part of the classification criteria of hazardous substances.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: Expected to be harmless to aquatic organisms.

Risk of bioaccumulation in an aquatic species is expected to be negligible.

Expected to be harmless to terrestrial species.

Expected to be harmful to bees.

Persistence and degradability: The product is not readily biodegradable.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

• Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail” and the “New Zealand NZS5433: Transport of Dangerous Goods on Land”.

• 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 International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Literary reference:

This MSDS has been prepared as per the “National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]”

This Material Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Reason(s) for Issue: Revised.

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Armstrong World Industries Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

