

## Safety Data Sheet

**Product Identifier: Mineral Fiber Acoustical Ceiling Tiles and Wall Panels  
(Class A) #1**

**SDS ID: ARM-003**

### \*\*\*Section 1 - IDENTIFICATION\*\*\*

**Material Name:** Mineral Fiber Acoustical Ceiling Tiles and Wall Panels (Class A) #1

**Chemical Family**

Man-made vitreous fiber ceiling tile

**Recommended Use**

acoustical ceiling tiles

**Restrictions on Use**

None known.

**Manufacturer Information**

Armstrong World Industries  
2500 Columbia Ave.  
Lancaster, PA 17603

Phone #: 877-276-7876  
Email: techline@armstrong.com  
Emergency #: 1-800-255-3924 (ChemTel)  
www.armstrong.com

### \*\*\*Section 2 - HAZARD(S) IDENTIFICATION\*\*\*

**Classification in accordance with 29 CFR 1910.1200.**

Not classified as hazardous

**GHS LABEL ELEMENTS**

**Symbol(s)**

None

**Signal Word**

None

**Hazard Statement(s)**

None

**Precautionary Statement(s)**

During the installation be certain that the work site is well ventilated and avoid breathing dust. Avoid contact with skin or eyes. Wear long-sleeve, loose fitting clothes, gloves and eye protection. Cut and trim with knife, razor or hand saw. Do not cut with power equipment unless either a dust collector is used on the equipment or local exhaust is used and a NIOSH approved respirator is worn to prevent overexposure to airborne silica. Exposures to respirable crystalline silica are not detected in industrial hygiene testing on workers installing acoustical ceiling panels for an 8 hour work day and are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. Panels do not release respirable dust in their installed state and therefore do not present any known health hazards when installed and properly maintained.

**Prevention**

Do not breathe dust, mist, fumes or vapors. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Obtain special instructions before use. Use only outdoors or in a well-ventilated area.

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**Response**

IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

Dispose in accordance with all applicable regulations.

**\*\*\*Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS\*\*\***

CAS	Component	Percent
Not Available	Newsprint	Non-hazardous
130885-09-5	Perlite	Non-hazardous
65997-17-3	Fiberglass	<13%
1317-65-3	Ground Calcium carbonate	Non-hazardous
Not Available	Mineral-wool	Non-hazardous
9005-25-8	Starch	Non-hazardous
1332-58-7	Aluminium hydrous silicate: Kaolin clay	Non-hazardous
14808-60-7	Quartz(inbound)	0.1-1%
1309-64-4	Antimony oxide (Sb2O3)	0.1 – 0.5%

**\*\*\*Section 4 - FIRST-AID MEASURES\*\*\***

**Description of Necessary Measures**

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.

**Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

If a large amount is swallowed, get immediate medical attention.

**Most Important Symptoms/Effects**

**Acute**

eye irritation, skin irritation, respiratory tract irritation.

**Delayed**

cancer hazard, lung damage.

**Indication of Immediate Medical Attention and Special Treatment Needed, If Needed**

Treat symptomatically and supportively.

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### \*\*\*Section 5 - FIRE-FIGHTING MEASURES\*\*\*

#### Suitable Extinguishing Media

carbon dioxide, regular dry chemical, regular foam, water spray

#### Unsuitable Extinguishing Media

None known.

#### Special Hazards Arising from the chemical

Combustible dust. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Toxic fumes may be released in case of fire.

#### Hazardous Combustion Products

**Combustion:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### Fire Fighting Measures

Keep away from sources of ignition - No smoking. Avoid inhalation of material or combustion by-products. Move material from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Dike for later disposal. Stay upwind and keep out of low areas.

#### Special Protective Equipment and Precautions for Firefighters

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

### \*\*\*Section 6 - ACCIDENTAL RELEASE MEASURES\*\*\*

#### Personal Precautions, Protective Equipment and Emergency Procedures

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate personal protective equipment. Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with skin and eyes. Do not breathe dust. If respirable dusts are generated, respiratory protection may be needed. Collect spillage. In case of spillage, stop the flow of material and block any potential routes to water systems. Only personnel trained for the hazards of this material should perform clean up and disposal. Avoid release to the environment.

#### Methods and Materials for Containment and Cleaning Up

Keep out of water supplies, sewers and soil. In case of spillage, stop the flow of material and block any potential routes to water systems. Collect spilled material using mechanical equipment. Keep unnecessary people away, isolate hazard area and deny entry. Avoid dust generation and accumulation. Keep container tightly closed. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Use non-sparking tools and equipment.

### \*\*\*Section 7 - HANDLING AND STORAGE\*\*\*

#### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Do not breathe dust. Use methods to minimize dust. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Take precautionary measures against static discharge. Dissipate static electricity during transfer by earthing (grounding and bonding) containers and equipment.

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### Conditions for Safe Storage, including any Incompatibilities

Store in a cool, dry place. Store in a well-ventilated place. Avoid contact with molten material. Keep separated from incompatible substances. Keep container tightly closed. Empty containers may contain product residue. Do not reuse empty containers without commercial cleaning or reconditioning. Store and handle in accordance with all current regulations and standards.

**Incompatibilities:** Not available

### \* \* \*Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\* \* \*

#### Exposure Limits

Follow all applicable exposure limits. Minimize dust generation and accumulation.

#### Component Exposure Limits

##### Fiberglass (65997-17-3)

**ACGIH:** 1 fiber/cm<sup>3</sup> TWA (respirable fibers: length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, related to Glass wool fiber)

**NIOSH:** 3 fiber/cm<sup>3</sup> TWA (fibers ≤ 3.5 µm in diameter and ≥ 10 µm in length); 5 mg/m<sup>3</sup> TWA (total, related to Glass wool fiber)

##### Ground Calcium carbonate (1317-65-3)

**OSHA:** 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**NIOSH:** 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

**Mexico** 10 mg/m<sup>3</sup> TWA LMPE-PPT  
20 mg/m<sup>3</sup> STEL [LMPE-CT]

##### Starch (9005-25-8)

**ACGIH:** 10 mg/m<sup>3</sup> TWA

**OSHA:** 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**NIOSH:** 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

##### Aluminium hydrous silicate: Kaolin clay (1332-58-7)

**ACGIH:** 2 mg/m<sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)

**OSHA:** 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**NIOSH:** 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

**Mexico** 10 mg/m<sup>3</sup> TWA LMPE-PPT  
20 mg/m<sup>3</sup> STEL [LMPE-CT]

##### Quartz(inbound) (14808-60-7)

**ACGIH:** 0.025 mg/m<sup>3</sup> TWA (respirable fraction)

**NIOSH:** 0.05 mg/m<sup>3</sup> TWA (respirable dust)

**Mexico** 0.1 mg/m<sup>3</sup> TWA LMPE-PPT (respirable fraction)

##### Antimony oxide (Sb<sub>2</sub>O<sub>3</sub>) (1309-64-4)

**Mexico** 0.5 mg/m<sup>3</sup> TWA LMPE-PPT (handling and use, as Sb); 1 mg/m<sup>3</sup> TWA LMPE-PPT (production)

#### Appropriate Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of these product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

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Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powered industrial trucks.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eyes/Face Protection**

Wear splash resistant safety goggles with a faceshield.

**Skin Protection**

Wear appropriate chemical resistant clothing.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.

**Respiratory Protection**

A NIOSH approved respirator with organic vapor cartridges and N95 filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.

**\*\*\*Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\*\*\***

<b>Physical State:</b>	Solid	<b>Appearance:</b>	fibrous forms
<b>Color:</b>	various colors	<b>Physical Form:</b>	solid
<b>Odor:</b>	None	<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Not available	<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	Not available	<b>Flash Point:</b>	Not available
<b>Decomposition:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>OSHA Flammability Class:</b>	Not available	<b>Vapor Pressure:</b>	Not available
<b>Vapor Density (air = 1):</b>	Not available	<b>Density:</b>	Not available
<b>Specific Gravity (water = 1):</b>	Not available	<b>Water Solubility:</b>	Insoluble
<b>Log KOW:</b>	Not available	<b>Coeff. Water/Oil Dist:</b>	Not available
<b>Auto Ignition:</b>	Not available	<b>Viscosity:</b>	Not available
<b>VOC:</b>	Not available	<b>Volatility:</b>	Not available
<b>Molecular Formula:</b>	Not available		

**\*\*\*Section 10 - STABILITY AND REACTIVITY\*\*\***

**Reactivity**

None known.

**Chemical Stability**

Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. Avoid generating dust. Avoid contact with molten material.

**Incompatible Materials**

Not available

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### Hazardous Decomposition

**Combustion:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## \* \* \*Section 11 - TOXICOLOGICAL INFORMATION\* \* \*

### Acute Toxicity

No information available for the product. See component data.

### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**Quartz(inbound) (14808-60-7)**

Oral LD50 Rat 500 mg/kg

**Antimony oxide (Sb2O3) (1309-64-4)**

Oral LD50 Rat >34600 mg/kg

### Information on Likely Routes of Exposure

#### Inhalation

Causes respiratory tract irritation.

#### Ingestion

No information on significant adverse effects.

#### Skin Contact

Causes skin irritation.

#### Eye Contact

Causes eye irritation.

#### Immediate Effects

eye irritation, skin irritation, respiratory tract irritation.

#### Delayed Effects

cancer hazard, lung damage.

#### Medical Conditions Aggravated by Exposure

No data available.

#### Irritation/Corrosivity Data

Causes eye irritation, skin irritation, and respiratory tract irritation.

#### Respiratory Sensitization

No information available for the product.

#### Dermal Sensitization

No information available for the product.

#### Germ Cell Mutagenicity

No information available for the product.

#### Carcinogenicity

##### Component Carcinogenicity

##### Fiberglass (65997-17-3)

**ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (related to Glass wool fiber)

**IARC:** Monograph 81 [2002]; Monograph 43 [1988] (Group 3 (not classifiable), related to Glass wool fiber)

**NTP:** Reasonably Anticipated To Be A Human Carcinogen (inhalable); Reasonably Anticipated To Be

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A Human Carcinogen (biopersistent, related to Glass wool fiber)  
**OSHA:** Present (related to Glass wool fiber)

### **Starch (9005-25-8)**

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

### **Aluminium hydrous silicate: Kaolin clay (1332-58-7)**

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**DFG:** Category 3B (could be carcinogenic for man)

### **Quartz(inbound) (14808-60-7)**

**ACGIH:** A2 - Suspected Human Carcinogen

**IARC:** Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans))

**NTP:** Known Human Carcinogen (respirable size)

**DFG:** Category 1 (causes cancer in man, alveola fraction)

**OSHA:** Present (respirable size)

### **Antimony oxide (Sb2O3) (1309-64-4)**

**ACGIH:** A2 - Suspected Human Carcinogen (production)

**IARC:** Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

**OSHA:** Present

### **Reproductive Toxicity**

No information available for the product.

### **Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

### **Specific Target Organ Toxicity - Repeated Exposure**

lung damage

### **Aspiration Hazard**

No data available.

## \* \* \*Section 12 - ECOLOGICAL INFORMATION\* \* \*

### **Ecotoxicity**

No information available for the product.

### **Component Analysis - Aquatic Toxicity**

#### **Antimony oxide (Sb2O3) (1309-64-4)**

**Fish:** 96 Hr LC50 Pimephales promelas: >80 mg/L [static]; 96 Hr LC50 Brachydanio rerio: >1000 mg/L [static]

**Algae:** 72 Hr EC50 Pseudokirchneriella subcapitata: 0.63 - 0.8 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.65 - 0.81 mg/L

**Invertebrate:** 48 Hr EC50 Daphnia magna: >1000 mg/L; 48 Hr EC50 Daphnia magna: 361.5 - 496.0 mg/L [Static]

### **Persistence and Degradability**

No information available for the product.

### **Bioaccumulation**

No information available for the product.

### **Mobility**

No information available for the product.

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**\*\*\*Section 13 - DISPOSAL CONSIDERATIONS\*\*\***

**Disposal Methods**

Dispose in accordance with all applicable regulations. Regulations vary. Consult local authorities before disposal.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

**Disposal of Contaminated Packaging**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**\*\*\*Section 14 - TRANSPORT INFORMATION\*\*\***

**US DOT Information**

Not regulated as a hazardous material.

**TDG Information**

No Classification assigned.

**Marine Pollutant**

No component(s) of this material is specifically listed in the IMDG Code as an identified marine pollutant.

**\*\*\*Section 15 - REGULATORY INFORMATION\*\*\***

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

**Antimony oxide (Sb2O3) (1309-64-4)**

CERCLA: 1000 lb final RQ; 454 kg final RQ

**SARA 311/312**

**Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No**

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Fiberglass	65997-17-3	No	No	Yes	No	No
Ground Calcium carbonate	1317-65-3	No	Yes	Yes	Yes	Yes
Starch	9005-25-8	No	Yes	Yes	No	Yes
Aluminium hydrous silicate: Kaolin clay	1332-58-7	No	Yes	Yes	Yes	Yes
Quartz(inbound)	14808-60-7	No	Yes	Yes	Yes	Yes
Antimony oxide (Sb2O3)	1309-64-4	Yes	Yes	Yes	Yes	Yes

**Canadian Classification**

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**Canadian WHMIS Ingredient Disclosure List (IDL)**

There are no components listed on the Ingredients Disclosure List.

**Canada-WHMIS**

WHMIS CLASSIFICATION: D2A D2B.



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### Chemical Inventory Listings

#### Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Perlite	130885-09-5	No	No	No	No	No	No	Yes	Yes	No
Fiberglass	65997-17-3	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Ground Calcium carbonate	1317-65-3	Yes	NSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Starch	9005-25-8	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Aluminium hydrous silicate: Kaolin clay	1332-58-7	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Quartz(inbound)	14808-60-7	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Antimony oxide (Sb2O3)	1309-64-4	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

### \* \* \*Section 16 - OTHER INFORMATION\* \* \*

#### Summary of Changes

New SDS: 06/12/2013

**NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Key / Legend

ACGIH = American Conference of Governmental Industrial Hygienists; AU = Australia; BOD = Biochemical Oxygen Demand; C = Celsius; CA = California; CAN = Canada; CAS = Chemical Abstract Service; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; CFR = Code of Federal Regulations; CN = Canada; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Canadian Domestic Substance List; EPA = Environmental Protection Agency; EU = European Union; IARC = International Agency for Research on Cancer; IDL = Ingredient Disclose List; IDLH = Immediately Dangerous to Life and Health; JP = Japan; KR = Korea; LC50 = Lethal Concentration; LD50 = Lethal Dose; LEL = Lower Explosive Limit; LMPE-CT = Mexico STEL equivalent; LMPE-PPT = Mexico TWA equivalent; MSDS = Material Safety Data Sheet; NIOSH = National Institute of Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; NZ = New Zealand; OEL = Occupational Exposure Limit; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; PH = Philippines; RQ = Reportable Quantity; SARA = Superfund Amendments Act; SDS = Safety Data Sheet; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substance Control Act; TWA = Time Weighted Average; UEL = Upper Explosive Limit; UN = United Nations; US = United State; WHMIS = Workplace Hazardous Materials Information System

#### Other Information

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse. Disclaimer: Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.



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