



MATERIAL INFORMATION SHEET*

Armstrong World Industries, Inc.
Environmental, Health & Safety
313 W. Liberty Street, P. O. Box 3001
Lancaster, PA 17604

Telephone (717) 396-2328 or 396-2935

Issued By: Safety, Health and
Industrial Hygiene Department

Date: 2/25/97 (replaces 2/14/90)

NFPA 704:

Health: 0

Flammability: 0

Reactivity: 0

(Ratings use five
divisions from 0 to 4:
0 = no special hazard;
4 = severe hazard.)

Division: Building Products Division

I. Product Information

- A. Product Name: Hot Dipped Galvanized Sheet Steel Suspension Systems (Ceiling Grid)
- B. Chemical Name and Synonyms: Product is galvanized sheet-low C and HSLA steel (hot dipped)
- C. Description and Ingredient Information: Normally T shaped, hot dipped galvanized cold formed solid sheet steel. Capped with hot dipped polyester painted solid sheet steel or aluminum solid sheet 3005 alloy.

II. Miscellaneous Information

This product is classified as an "article" according to Title 29 of the Code of Federal Regulations, OSHA Part 1910.1200(c). It is formed to a specific shape or design during manufacture, has end use functions dependent upon its shape or design, and does not release any hazardous chemical under normal conditions of use.

*This Material Information Sheet is provided in lieu of a Material Safety Data Sheet. An MSDS is required only for chemicals or products that are hazardous as defined by the OSHA Standard 1910.1200. Please refer to the product's label for specific instructions and cautions before using the product.



MATERIAL SAFETY DATA SHEET

Armstrong World Industries, Inc.
Environmental, Health and Safety
313 West Liberty Street., P. O. Box 3001
Lancaster, PA 17604
Telephone (717) 396-2328 or 396-2935

Division: Building Products Operation
Issued By: Safety, Health and
Industrial Hygiene Department

Date: 4/10/96 (replaces 1/12/93)

NEPA 704: (0 = no hazard; 4 = severe hazard)
Health = 1
Fire = 0
Reactivity = 0

N/A = Not Applicable or Not Available
N/K = None Known or Not Known

Dept. of Transportation Information:
Shipping Name: Not Classified
Hazard Class: N/A
ID#: N/A

Emergency Only Contact: CHEM-TEL 800-255-3924

I. Product Information

- A. Product Name: Mineral Fiber Ceilings & Wall Panels
B. Chemical Name and Synonyms: N/A
C. Chemical or Product Family: Mineral Wool Fiber

II. Ingredient Information

Hazardous Components (Chemical Identity; Common Name)	C.A.S. No.	%	OSHA PEL	ACGIH TLV
Mineral Wool Fiber	N/A	1-60	Nuisance Resp: 5 mg/m ³	Nuisance Total: 10 mg/m ³
Hydrous Aluminum Silicate	14808-60-7	15-25	as respirable crystalline silica: 0.1 mg/m ³	0.1 mg/m ³
Fibrous Glass	65997-17-3	5	Nuisance Resp: 5 mg/m ³	Nuisance Total: 10 mg/m ³

These product formulations do not contain asbestos.

III. Physical Data

- A. Appearance and Color: Gray, pressed fibrous panel of various colors
B. Boiling Point (degrees F): N/A
C. Vapor Pressure (mm Hg @ 20 degrees C): N/A
D. Vapor Density (Air = 1): N/A
E. Solubility in Water: N/A
F. Specific Gravity (H₂O = 1): N/A
G. Percent Volatile by Weight (30 min. @ 275 degrees F): N/A
H. Evaporation Rate (Butyl Acetate = 1): N/A
I. pH: N/A

IV. Fire and Explosion Data

- A. Flash Point: N/A
B. Flammable Range: LEL = N/A; UEL = N/A
C. Extinguishing Media: Water fog, dry chemical ABC rated
D. Special Fire Fighting Procedures: None
E. Unusual Fire and Explosion Hazards: None

Mineral Fiber Ceilings & Wall Panels

Type 2

V. Health Data

- A. Primary Route(s) of Entry: Inhalation, skin, and eye contact
- B. Target Organs: Lungs, skin, and eyes
- C. Effects of Overexposure:
Acute Health Effects: Materials are a transient mechanical irritant to the skin, eyes and upper respiratory system. Refer to special protection information for handling instructions.
Chronic Health Effects: Recent U. S., Canadian and European studies of almost 27,000 production workers (1930's to 1980's) found a slight increase in the incidence of lung cancer among those workers employed in the industry 30 years ago. Much of this apparent increase can be explained by the differences in conditions and materials used in mineral wool production plants then versus now. Workers from more recent periods have shown no significant increase in disease from mineral wool exposure. Animal inhalation studies also show no development of disease from breathing high concentrations of mineral wool fiber. Based on the limited evidence from the human studies, IARC (International Agency for Research on Cancer) has recommended a 2B classification of mineral wool as possibly carcinogenic to humans.
 Long term exposure to crystalline silica dust in concentrations higher than the recommended PEL or TLV may cause silicosis. IARC has recommended a 2A classification of crystalline silica as probably carcinogenic to humans.
- D. Carcinogenicity: NTP: Yes IARC Monographs: Yes OSHA Regulated: No
- E. Medical Conditions Generally Aggravated by Exposure: Any condition generally aggravated by respiratory and mechanical irritants in the air or on the skin. Pre-existing upper respiratory and lung disease such as, but not limited to bronchitis, emphysema, and asthma.
- F. First Aid Procedures:
Inhalation: N/A
Skin: Wash with mild soap and running water.
Eyes: Flush with flowing water for at least 15 minutes and if symptoms persist, seek immediate medical attention.

VI. Reactivity Data

- A. Stability: Material is stable
- B. Incompatibility: N/K
- C. Hazardous Decomposition Products: Carbon dioxide, and other trace pyrolysis products typical of decomposition of any organic chemical.
- D. Hazardous Polymerization: N/A

VII. Spill or Leak Procedures

- A. Steps to be taken if material is released or spilled: N/A
- B. Waste Disposal Method: Dispose in accordance with federal, state, and local regulations. The primary method of disposal is in a municipal or industrial landfill.

VIII. Special Protection Information

Install in well ventilated areas and avoid breathing dust.

Wear loose, comfortable clothing and long-sleeved shirts to minimize skin contact with these materials.

Handle these materials carefully to minimize airborne dust.

If high dust levels are anticipated during installation, such as with the use of power tools, use the appropriate NIOSH approved dust respirator.

All power cutting tools must be equipped with dust collectors.

After using these materials, wash with warm water and mild soap. Do not scratch or rub skin if it becomes irritated.

Wash work clothes separately, and then rinse the washer.

WORK SITE ENVIRONMENT: Initially there may be a potential adverse impact on indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate person that: ' It will be necessary to establish and maintain adequate ventilation of the work area, without causing the entry of contaminants to other parts of building; and ' Persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

The information presented herein is supplied as a guide to those who handle or use these products. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of these products.



Chicago Metallic Corporation®

4849 South Austin Avenue, Chicago, Illinois 60638-1492
TEL: 708-563-4600 • FAX: 708-563-4552

To Whom It May Concern

As you may know, the material safety data sheets are used to supply information about any purchased product which may contain any hazardous or toxic substances.

With this in mind, Suspended Ceiling Systems produced by Chicago Metallic fall under the classification of "Articles" as defined by OSHA standard 1910.1200 paragraph "C". By this definition an "Article" is a manufactured item: (I) Which is formed to a specific shape or design during manufacture; (II) Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (III) Which does not release, or otherwise result in exposure to a hazardous chemical under normal conditions of use.

Products classified as "Articles" are exempt under the standard and, therefore, do not require labels or data sheets.

We trust this information will satisfy your requirements. If you have any questions, please feel free to call.

Chris Uhlir
Inside Sales
Chicago Metallic Corporation