

Section 1. Identification

Product identifier

Product Identity

Man-made Vitreous Fiber Ceilings and Wall Panels #3

Other means of identification

Man-made Vitreous Fiber Ceilings and Wall Panels #3

Relevant identified uses of the substance or mixture and uses advised against

Acoustical ceiling tiles

Details of the supplier of the safety data sheet

Company Name

Armstrong World Industries, Inc.
2500 Columbia Avenue, P.O. Box 3001
Lancaster, PA 17604

Emergency

24 hour Emergency Telephone No.

(800) 255-3924 (ChemTel)

Customer Service:

(877) 276-7876

Section 2. Hazard(s) identification

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

The substance is not classified according to the OSHA Hazcom or WHMIS regulations.

Label elements

The substance is not classified according to the OSHA Hazcom or WHMIS regulations.

[Prevention]

No GHS prevention statements

[Response]

No GHS response statements

[Storage]

No GHS storage statements

[Disposal]

No GHS disposal statements

Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Glass oxide, glass CAS Number: 65997-17-3 Synonyms: Borosilicate glass, Glass, oxide, chemicals	80 - 100	Not Classified	No data available
Urea CAS Number: 57-13-6 Synonyms: Urea	3 - 7	Not Classified	No data available
Limestone CAS Number: 1317-65-3 Synonyms: Calcium carbonate	3 - 7	Not Classified	No data available
Starch, polymer with 2-propenoic acid, graft, sodium salt CAS Number: 60323-79-7 Synonyms: Starch, polymer with 2-propenoic acid, sodium salt	3 - 7	Not Classified	No data available
calcined china clay CAS Number: 92704-41-1 Synonyms: Kaolin, calcined	3 - 7	Not Classified	No data available
Pregelatinized Starch CAS Number: 9005-25-8 Synonyms: Sago starch	1 - 5	Not Classified	No data available
Calcium carbonate CAS Number: 471-34-1 Synonyms: Calcium carbonate	1 - 5	Not Classified	No data available
Dolomite CAS Number: 16389-88-1 Synonyms: Dolomite	1 - 5	Not Classified	No data available
Titanium dioxide CAS Number: 13463-67-7 Synonyms: Titanium Dioxide, CI 77891	1 - 5	Not Classified	No data available
Fats and Glyceridic oils, vegetable, polymd., oxidized CAS Number: 68918-91-2 Synonyms: Fats and Glyceridic oils, vegetable, polymerized, oxidized	0.5 - 1.5	Not Classified	No data available

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	
Overview	No specific symptom data available. Treat symptomatically.

Section 5. Fire-fighting measures

Extinguishing media

Carbon dioxide, regular dry chemical, regular foam, water spray.

Special hazards arising from the substance or mixture

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

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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.

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.

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

ERG Guide No. ---

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material 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

Handle containers carefully to prevent damage and spillage.

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.

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.

Incompatible materials: No data available.

Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

Control parameters

Exposure			
CAS No.	Ingredient	Source	Value
57-13-6	Urea	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
471-34-1	Calcium carbonate	OSHA	TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp)
		ACGIH	No Established Limit
		NIOSH	TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp)
1317-65-3	Limestone	OSHA	TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp)
		ACGIH	TWA: 10 mg/m ³ Ceiling: 20 mg/m ³
		NIOSH	TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp)
9005-25-8	Pregelatinized Starch	OSHA	TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp)
		ACGIH	10 mg/m ³
		NIOSH	TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp)
13463-67-7	Titanium dioxide	OSHA	TWA 15 mg/m ³
		ACGIH	Nanoscale 0.2 mg/m ³ (R) Respirable fraction - finescale 2.5 mg/m ³ ®
		NIOSH	Footnote ca
16389-88-1	Dolomite	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

60323-79-7	Starch, polymer with 2-propenoic acid, graft, sodium salt	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
65997-17-3	Glass oxide, glass	OSHA	15 mg/m ³ (as nuisance dust) 5 mg/m ³ (respirable fraction)
		ACGIH	10 mg/m ³ (as nuisance dust) 5 mg/m ³ (respirable fraction)
		NIOSH	No Established Limit
68918-91-2	Fats and Glyceridic oils, vegetable, polymd., oxidized	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
92704-41-1	calcined china clay	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit, they must use the appropriate, certified respirators.

Eyes

Protective safety glasses recommended

Skin

Protective gloves recommended.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State

Solid

Color

Various Colors

Odor

None

Melting point / freezing point

Not Available

Initial boiling point and boiling range

Not Available

Flammability (solid, gas)

Not Applicable

Upper/lower flammability or explosive limits

Lower Explosive Limit: Not Available

Upper Explosive Limit: Not Available

Flash Point

Not Available

Auto-ignition temperature

Not Available

Decomposition temperature

Not Available

pH

Not Available

Viscosity (cSt)

Not Available

Solubility in Water

Insoluble

Partition coefficient n-octanol/water (Log Kow)	Not Available
Vapor pressure (Pa)	Not Available
Relative Density	Not Available
Vapor Density	Not Available
Particle Characteristics	---
Evaporation rate (Ether = 1)	Not Available
VOC Content	Not Available
Other information	
No other relevant information.	

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No data available.

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

No data available.

Hazardous decomposition products

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

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Glass oxide, glass - (65997-17-3)	No data available.	No data available.	No data available.	No data available.	No data available.
Urea - (57-13-6)	14,300.00, Rat - Category: NA	No data available.	No data available.	No data available.	No data available.
Limestone - (1317-65-3)	No data available.	No data available.	No data available.	No data available.	No data available.
Starch, polymer with 2-propenoic acid, graft, sodium salt - (60323-79-7)	No data available.	No data available.	No data available.	No data available.	No data available.
calcined china clay - (92704-41-1)	No data available.	No data available.	No data available.	No data available.	No data available.

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Pregelatinized Starch - (9005-25-8)	No data available.	No data available.	No data available.	No data available.	No data available.
Calcium carbonate - (471-34-1)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available.	No data available.	No data available.
Dolomite - (16389-88-1)	5,000.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Titanium dioxide - (13463-67-7)	> 25,000.00, Rat - Category: NA	No data available.	No data available.	6.82, Rat - Category: NA	No data available.
Fats and Glyceridic oils, vegetable, polymd., oxidized - (68918-91-2)	No data available.	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
57-13-6	Urea	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
471-34-1	Calcium carbonate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
1317-65-3	Limestone	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
9005-25-8	Pregelatinized Starch	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	A4
13463-67-7	Titanium dioxide	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No;
		ACGIH	A4
16389-88-1	Dolomite	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
60323-79-7	Starch, polymer with 2-propenoic acid, graft, sodium salt	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
65997-17-3	Glass oxide, glass	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
68918-91-2		OSHA	Regulated Carcinogen: No;

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	Fats and Glyceridic oils, vegetable, polymd., oxidized	NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
92704-41-1	calcined china clay	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry: No data available.

Symptoms and effects, both acute and delayed:

No specific symptom data available.

Treat symptomatically.

Section 12. Ecological information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Glass oxide, glass - (65997-17-3)	> 1,000, Danio rerio	No data available.	No data available.
Urea - (57-13-6)	22,500.00, Tilapia mossambica	No data available.	No data available.
Limestone - (1317-65-3)	No data available.	No data available.	No data available.
Starch, polymer with 2-propenoic acid, graft, sodium salt - (60323-79-7)	No data available.	No data available.	No data available.
calcined china clay - (92704-41-1)	No data available.	No data available.	No data available.
Pregelatinized Starch - (9005-25-8)	No data available.	No data available.	No data available.

Calcium carbonate - (471-34-1)	101.00, Oncorhynchus mykiss	101.00, Daphnia magna	No data available.
Dolomite - (16389-88-1)	No data available.	No data available.	No data available.
Titanium dioxide - (13463-67-7)	294.00, Oryzias latipes	501.00, Daphnia magna	101.00, Pseudokirchneriella subcapitata
Fats and Glyceridic oils, vegetable, polymd., oxidized - (68918-91-2)	No data available.	No data available.	No data available.

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

Not Available

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

Other adverse effects

No data available.

Section 13. Disposal considerations

Waste treatment methods

Waste should not be released to sewers. Observe all federal, state, and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	Not Regulated	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
Transport hazard class(es)	DOT Hazard Class: Not Applicable Sub Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable Sub Class: Not Applicable
Packing group	Not Applicable	Not Applicable	Not Applicable
Environmental hazards	Marine Pollutant: No;		
Special precautions for user	Not Applicable		

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0025265-77-4	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	Yes		ACTIVE
0129898-01-7	2-Propenoic acid, polymer with sodium phosphinate (1:1), sodium salt	Yes	PMN; XU	ACTIVE
0068891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Yes	UVCB XU	ACTIVE
0068155-39-5	alkyl ethoxylated amines	Yes	UVCB XU	ACTIVE
0021645-51-2	Aluminium hydroxide	Yes		ACTIVE
0007429-90-5	Aluminum powder (Al) (stabilized)	Yes		ACTIVE
0007631-86-9	Amorphous Silica	Yes		ACTIVE
0007727-43-7	Barium sulfate	Yes		ACTIVE
0092704-41-1	calcined china clay	Yes	UVCB	ACTIVE
0000471-34-1	Calcium carbonate	Yes		ACTIVE
0000546-93-0	Carbonic acid, magnesium salt (1:1)	Yes		ACTIVE
0009063-87-0	Carbopol 674	No		
0000077-92-9	Citric acid	Yes		ACTIVE
0014464-46-1	Cristobalite	Yes		ACTIVE
0014808-60-7	Crystalline silica (Quartz) (respirable)	Yes	Present	
0027138-31-4	dipropylene glycol dibenzoate	Yes		ACTIVE
0016389-88-1	Dolomite	Yes		ACTIVE
0068441-17-8	Ethene, homopolymer, oxidized	Yes	UVCB XU	ACTIVE
0068918-91-2	Fats and Glyceridic oils, vegetable, polymd., oxidized	Yes	UVCB XU	ACTIVE
0068604-67-1	Fatty acids, coco, polymers with benzoic acid, pentaerythritol and phthalic anhydride	Yes	UVCB XU	ACTIVE
0065997-17-3	Glass oxide, glass	Yes	UVCB	ACTIVE
0007439-89-6	Iron	Yes		ACTIVE
0068855-54-9	Kieselguhr, soda ash flux-calcined	Yes	UVCB	ACTIVE
0001317-65-3	Limestone	Yes	UVCB	ACTIVE
0007439-95-4	Magnesium	Yes		ACTIVE
0012174-11-7	Magnesium aluminium silicate	No		
0007439-96-5	Manganese compounds (as Mn)	Yes		ACTIVE
0012001-26-2	MICA	Yes		ACTIVE
0308336-53-0	Oxirane 2-Phenyl-, polymer, mono(dihydrogen phosphate) decyl ether	Yes	PMN; XU	ACTIVE
0064742-51-4	Paraffin waxes (petroleum), hydrotreated	Yes	UVCB	ACTIVE

0009002-89-5	Polyvinyl alcohol	Yes	XU	ACTIVE
0009005-25-8	Pregelatinized Starch	Yes	XU	ACTIVE
0002943-75-1	Silane, triethoxyoctyl-	Yes		ACTIVE
0001344-00-9	Silicic acid, aluminum sodium salt	Yes		ACTIVE
0007440-21-3	Silicon	Yes		ACTIVE
0063148-57-2	Siloxane	Yes	UVCB XU	ACTIVE
0060323-79-7	Starch, polymer with 2-propenoic acid, graft, sodium salt	Yes	FRI; XU; Y1	ACTIVE
0013463-67-7	Titanium dioxide	Yes		ACTIVE
0000057-13-6	Urea	Yes		ACTIVE
0138265-88-0	Zinc borate	No		

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Glass oxide, glass

Proposition 65 - Carcinogens (>0.0%):

Crystalline silica (Quartz) (respirable)

Magnesium aluminium silicate

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:



WARNING: This product can expose you to chemicals including [Crystalline silica (Quartz) (respirable), Magnesium aluminum silicate], which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

Revision Date 07/24/2024

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Not Applicable

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. 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 this product.

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