

1. Identification

1.1. Product identifier

Product Identity Tectum Panels, Natural

Alternate Names Tectum Panels, Natural

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

Intended use Acoustical wall, ceiling and roof deck panels.

Application Method See Technical Data Sheet.
(www.armstrongceilings.com/tectum)

1.3. 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: Armstrong World Industries, Inc. (877) 276-7876 (email: techline@armstrongceilings.com)

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Irrit. 2;H315	Causes skin irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Carc. 1A;H350	May cause cancer.
Combustible Dust	May form combustible dust concentrations in air.

Note: The classifications are for the dust of the product, and do not apply to the product as shipped. Please take care when cutting or sanding to avoid contact with the dust.

2.2. Label elements



Danger

H317 May cause an allergic skin reaction.

H350 May cause cancer.

May form combustible dust concentrations in air.

[Prevention]:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+313 IF exposed or concerned: Get medical advice / attention.
P321 Specific treatment (see information on this label).
P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Aspen Wood Excelsior CAS Number: Proprietary	25 - 50	Combustible Dust Carc. 1A; H350 (as wood dust)	[1]
Magnesium oxide CAS Number: 0001309-48-4	10 - 25	Not Classified	[1][2]
Sodium silicate CAS Number: 0001344-09-8	10 - 25	Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335	[1][4]
Magnesium sulfate CAS Number: 0007487-88-9	5 - 10	Skin Sens. 1;H317	[1]
Calcium carbonate CAS Number: 0000471-34-1	5 - 10	Not Classified	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

[4] Hazardous not present in finished Tectum panel.

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

4. First aid measures

4.1. 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	Wash with soap and water.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Overview	EFFECTS OF OVEREXPOSURE: SKIN: May cause skin irritation. EYES: Contact may cause eye irritation. Wear protective safety glasses / goggles when cutting to avoid contact with dust. INGESTION: Not an expected route of exposure. If ingested, contact a medical professional immediately. INHALATION: Mists may cause respiratory tract burns, chemical pneumonitis, and pulmonary edema. Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure. See section 2 for further details.
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5. Fire-fighting measures

5.1. Extinguishing media

Water, dry chemical and other agents rated for a wood fire (Type A fire). Use an extinguisher rated for a Type A fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Carbon monoxide, hydrogen cyanide, and other products of wood combustion.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Evacuate the area and notify the fire department. If possible isolate the fire by removing other combustible materials. If the fire is small, use a hose-line or extinguisher rated for a Type A fire. If possible, dike and collect water used to fight fires. Fire fighters should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. 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.

6.3. Methods and material for containment and cleaning up

Sweep or vacuum to clean up spills. Do not use any procedure which causes dispersion of dust into the air if any possibility of ignition exists. Dispose of in accordance with local, state and federal regulations.

7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Avoid dust generation when handling product to minimize dust explosion potential.

Provide ventilation to limit dust exposure.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Keep product away from sources that exceed the auto ignition limit.

Incompatible materials: Keep away from high temperatures and strong oxidizers, such as concentrated nitric acid, oxygen, hydrogen peroxide, and chlorine.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

CAS No.	Ingredient	Exposure	
		Source	Value
0000471-34-1	Calcium carbonate	OSHA	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		ACGIH	No Established Limit

		NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		Supplier	No Established Limit
0001309-48-4	Magnesium oxide	OSHA	TWA 15 mg/m3
		ACGIH	TWA: 3 mg/m3 (respirable dust/fume) 10 mg/m3 (inhalable fume) STEL: 10 mg/m3 (inhalable fume)
		NIOSH	no established RELs
		Supplier	No Established Limit
0001344-09-8	Sodium silicate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0007487-88-9	Magnesium sulfate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
Proprietary	Aspen Wood Excelsior	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

The exposure limits for nuisance dust (Particulate Not Otherwise Specified - PNOS) are: OSHA PEL: 15 mg/m3 (50 mppcf*) TWA, 5 mg/m3 (respirable fraction). OSHA regulates wood dust as PNOS.

8.2. 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.

See section 2 for further details.

9. Physical and chemical properties

Appearance

Off White Solid

Odor

Slight to None.

Odor threshold

Not determined

pH

Not Available

Melting point / freezing point

Not Available

Initial boiling point and boiling range

Not Available

Flash Point	Not Available
Evaporation rate (Ether = 1)	Not Available
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Available Upper Explosive Limit: Not Available
Vapor pressure (Pa)	Not Known
Vapor Density	Not Known
Specific Gravity	Not Available
Solubility in Water	Not Available
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Typically 450-600°F
Decomposition temperature	Not Available
Viscosity (cSt)	Not Measured
Relative Density	16-26 lbs/ft3

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

High temperatures and fires.

10.5. Incompatible materials

Keep away from high temperatures and strong oxidizers, such as concentrated nitric acid, oxygen, hydrogen peroxide, and chlorine.

10.6. Hazardous decomposition products

Carbon monoxide, hydrogen cyanide, and other products of wood combustion.

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

Aspen Wood Excelsior - (Proprietary)	No data available	No data available	No data available	No data available	No data available
Magnesium oxide - (1309-48-4)	No data available	No data available	No data available	No data available	No data available
Sodium silicate - (1344-09-8)	3,400.00, Rat - Category: 5	No data available	No data available	No data available	No data available
Magnesium sulfate - (7487-88-9)	No data available	>2,000.00, Rat - Category: 5	No data available	No data available	No data available
Calcium carbonate - (471-34-1)	6,450.00, Rat - Category: NA	No data available	No data available	No data available	No data available

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000471-34-1	Calcium carbonate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001309-48-4	Magnesium oxide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001344-09-8	Sodium silicate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007487-88-9	Magnesium sulfate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Proprietary	Aspen Wood Excelsior (as wood dust, not regulated in solid form)	OSHA	Regulated Carcinogen: Yes
		NTP	Known: Yes; Suspected: No
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

12. Ecological information

12.1. 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
Aspen Wood Excelsior - (Proprietary)	Not Available	Not Available	Not Available
Magnesium oxide - (1309-48-4)	Not Available	Not Available	Not Available
Sodium silicate - (1344-09-8)	301.00, Lepomis macrochirus	216.00, Daphnia magna	Not Available
Magnesium sulfate - (7487-88-9)	Not Available	Not Available	Not Available
Calcium carbonate - (471-34-1)	56,000.00, Gambusia affinis	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

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

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
US EPA Tier II Hazards	<p>Fire: Yes</p> <p>Sudden Release of Pressure: No</p> <p>Reactive: No</p> <p>Immediate (Acute): Yes</p>

Delayed (Chronic): Yes

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:

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

Proposition 65 - Carcinogens (>0.1%):

Wood dust

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.

16. Other information

SDS Revision Date 06/14/2017

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.

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.

End of Document

1. Identification

1.1. Product identifier

Product Identity

Tectum Panels, Painted

Alternate Names

Tectum Panels, Painted

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

Intended use

Acoustical wall, ceiling and roof deck panels.

Application Method

See Technical Data Sheet.
(www.armstrongceilings.com/tectum)

1.3. 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: Armstrong World Industries, Inc.

(877) 276-7876 (email: techline@armstrongceilings.com)

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Irrit. 2;H315

Causes skin irritation.

Skin Sens. 1;H317

May cause an allergic skin reaction.

Carc. 1A;H350

May cause cancer.

Combustible Dust

May form combustible dust concentrations in air.

Note: The hazard classifications are for the dust of the product, and do not apply to the product as shipped. Please take care when cutting or sanding to avoid contact with the dust.

2.2. Label elements



Danger

H317 May cause an allergic skin reaction.

H350 May cause cancer.

May form combustible dust concentrations in air.

[Prevention]:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+313 IF exposed or concerned: Get medical advice / attention.
P321 Specific treatment (see information on this label).
P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Aspen Wood Excelsior CAS Number: Proprietary	25 - 50	Combustible Dust Carc. 1A; H350 (as wood dust)	[1]
Magnesium oxide CAS Number: 0001309-48-4	10 - 25	Not Classified	[1][2]
Sodium silicate CAS Number: 0001344-09-8	10 - 25	Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335	[1][4]
Magnesium sulfate CAS Number: 0007487-88-9	5 - 10	Skin Sens. 1;H317	[1]
Calcium carbonate CAS Number: 0000471-34-1	5 - 10	Not Classified	[1][2]
Crystalline Silica - Quartz CAS Number: 0014808-60-7	<1.0	Acute Tox. 4;H332 STOT RE 2;H373 Carc. 1A;H350	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

[4] Hazardous not present in finished Tectum panel.

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

4. First aid measures

4.1. 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	Wash with soap and water.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview	EFFECTS OF OVEREXPOSURE: SKIN: May cause skin irritation. EYES: Contact may cause eye irritation. Wear protective safety glasses / goggles when cutting to avoid contact with dust. INGESTION: Not an expected route of exposure. If ingested, contact a medical professional immediately. INHALATION: Mists may cause respiratory tract burns, chemical pneumonitis, and pulmonary edema. Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure. See section 2 for further details.
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5. Fire-fighting measures

5.1. Extinguishing media

Water, dry chemical and other agents rated for a wood fire (Type A fire). Use an extinguisher rated for a Type A fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Carbon monoxide, hydrogen cyanide, and other products of wood combustion.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipment.
Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Evacuate the area and notify the fire department. If possible isolate the fire by removing other combustible materials. If the fire is small, use a hose-line or extinguisher rated for a Type A fire. If possible, dike and collect water used to fight fires. Fire fighters should wear normal protective equipment (full bunker gear) and positive-pressure selfcontained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. 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.

6.3. Methods and material for containment and cleaning up

Sweep or vacuum to clean up spills. Do not use any procedure which causes dispersion of dust into the air if any possibility of ignition exists. Dispose of in accordance with local, state and federal regulations.

7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Avoid dust generation when handling product to minimize dust explosion potential.

Provide ventilation to limit dust exposure.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Keep product away from sources that exceed the auto ignition limit.

Incompatible materials: Keep away from high temperatures and strong oxidizers, such as concentrated nitric acid, oxygen, hydrogen peroxide, and chlorine.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000471-34-1	Calcium carbonate	OSHA	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		ACGIH	No Established Limit
		NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		Supplier	No Established Limit
0001309-48-4	Magnesium oxide	OSHA	TWA 15 mg/m3
		ACGIH	TWA: 3 mg/m3 (respirable dust/fume) 10 mg/m3 (inhalable fume) STEL: 10 mg/m3 (inhalable fume)
		NIOSH	no established RELs
		Supplier	No Established Limit
0001344-09-8	Sodium silicate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0007487-88-9	Magnesium sulfate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0014808-60-7	Crystalline Silica - Quartz	OSHA	PEL 50 µg/m3
		ACGIH	TWA: 0.025 mg/m3 A1, 1
		NIOSH	0.05 mg/m3 TWA (respirable)
		Supplier	No Established Limit
Proprietary	Aspen Wood Excelsior	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

The exposure limits for nuisance dust (Particulate Not Otherwise Specified - PNOS) are: OSHA PEL: 15 mg/m3 (50 mppcf*) TWA, 5 mg/m3 (respirable fraction). OSHA regulates wood dust as PNOS.

8.2. 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.

See section 2 for further details.

9. Physical and chemical properties

Appearance	Off White Solid
Odor	Slight to None.
Odor threshold	Not determined
pH	Not Available
Melting point / freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash Point	Not Available
Evaporation rate (Ether = 1)	Not Available
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Available Upper Explosive Limit: Not Available
Vapor pressure (Pa)	Not Known
Vapor Density	Not Known
Specific Gravity	Not Available
Solubility in Water	Not Available
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Typically 450-600oF
Decomposition temperature	Not Available
Viscosity (cSt)	Not Measured
Relative Density	16-26 lbs/ft3
9.2. Other information	
No other relevant information.	

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

High temperatures and fires.

10.5. Incompatible materials

Keep away from high temperatures and strong oxidizers, such as concentrated nitric acid, oxygen, hydrogen peroxide, and chlorine.

10.6. Hazardous decomposition products

Carbon monoxide, hydrogen cyanide, and other products of wood combustion.

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
Aspen Wood Excelsior - (Proprietary)	No data available	No data available	No data available	No data available	No data available
Magnesium oxide - (1309-48-4)	No data available	No data available	No data available	No data available	No data available
Sodium silicate - (1344-09-8)	3,400.00, Rat - Category: 5	No data available	No data available	No data available	No data available
Magnesium sulfate - (7487-88-9)	No data available	>2,000.00, Rat - Category: 5	No data available	No data available	No data available
Calcium carbonate - (471-34-1)	6,450.00, Rat - Category: NA	No data available	No data available	No data available	No data available
Crystalline Silica - Quartz - (14808-60-7)	No data available	No data available	No data available	No data available	No data available

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000471-34-1	Calcium carbonate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001309-48-4	Magnesium oxide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001344-09-8	Sodium silicate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007487-88-9	Magnesium sulfate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0014808-60-7	Crystalline Silica - Quartz	OSHA	Regulated Carcinogen: No
		NTP	Known: Yes; Suspected: No
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Proprietary	Aspen Wood Excelsior (as wood dust, not regulated in solid form)	OSHA	Regulated Carcinogen: Yes
		NTP	Known: Yes; Suspected: No
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Inhalation of dust containing Crystalline Silica may contribute to pre-existing pulmonary diseases such as asthma and lung disorders associated with the smoking of tobacco.

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable

Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	1A	May cause cancer.
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. 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
Aspen Wood Excelsior - (Proprietary)	Not Available	Not Available	Not Available
Magnesium oxide - (1309-48-4)	Not Available	Not Available	Not Available
Sodium silicate - (1344-09-8)	301.00, Lepomis macrochirus	216.00, Daphnia magna	Not Available
Magnesium sulfate - (7487-88-9)	Not Available	Not Available	Not Available
Calcium carbonate - (471-34-1)	56,000.00, Gambusia affinis	Not Available	Not Available
Crystalline Silica - Quartz - (14808-60-7)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

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

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
US EPA Tier II Hazards	Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): Yes

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:

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

Proposition 65 - Carcinogens (>0.1%):

Crystalline Silica - Quartz
Wood Dust
Titanium dioxide

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.

16. Other information

SDS Revision Date 06/14/2017

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.

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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