VELLO MINERAL FIBRE ACOUSTIC CEILING TILES

1. IDENTIFICATION

Product identifier

Vello Mineral Fibre Acoustic Ceiling Tiles

Synonym(s)

Vello & Vello Health Mineral Fibre Acoustic Ceiling Tiles

Recommended use

Interior use

Recommended restrictions

Use in accordance with manufacturer's recommendations.

2. HAZARD(S) IDENTIFICATION

Emergency Overview

"This product is not expected to produce any unusual hazards during normal use according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Man-made mineral fibres have been classified by the European Union as irritating to skin.

Physical hazards

Not classified.

Health hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

None.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Get medical attention/advice if you feel unwell.

Storage

Store as indicated in Section 7.

Disposal

Dispose of in accordance with local, state, and federal regulations.

Other hazards which do not result in GHS classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures		
Chemical Name	**CAS Number**	**%**
Slag Wool Fibre	N/A	> 80
Kaolin	1332-58-7	< 10
Starch	9005-25-8	< 10
Aluminum hydroxide	21645-51-2	< 2
Calcium Carbonate	471-34-1	< 2
Continuous filament glass fibre	65997-17-3	< 2

Composition comments

All concentrations are in percent by weight unless ingredient is a gas Raw materials and/or coatings in this product contain small amounts of titanium dioxide, which has been classified as possibly carcinogenic to humans by the International Agency for Research on Cancer (IARC). However, per IARC “no significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints” (1). See Section 16 for further information.

4. FIRST-AID MEASURES

Inhalation

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact

Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

Eye contact

Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate throat and respiratory system and cause coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Not applicable.

Specific hazards arising from the chemical

Not a fire hazard.

Special protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Use standard firefighting procedures & consider the hazards of other involved materials.

Specific methods

Cool material exposed to heat with water spray and remove it if no risk is involved.

General fire hazards

No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

Environmental precautions

Avoid discharge to drains, sewers, and other water systems.

7. HANDLING AND STORAGE

Precautions for safe handling

Use work methods which minimize dust production.
Avoid inhalation of dust and contact with skin and eyes.
Wear appropriate personal protective equipment.
Wash hands after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities
Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits
U.S. - OSHA

Components	CAS Number	Value	Form
Slag wool fiber (CAS N/A)	TWA	5 mg/m^3 15 mg/m^3	Fibre, respirable (diameter ≤ 3.5 µm and length ≤ 10 µm) Fibre, total

US. OSHA Table Z-1 Limits for Air Contaminants
(29 CFR 1910.1000)

Components	CAS Number	Value	Form
Calcium carbonate (CAS 471-34-1)	PEL	5 mg/m^3 15 mg/m^3	Respirable fraction. Total dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m^3 15 mg/m^3	Respirable fraction. Total dust.
Starch (CAS 9005-25-8)	PEL	5 mg/m^3 15 mg/m^3	Respirable fraction. Total dust.

US. ACGIH Threshold Limit Values			
Components	**CAS Number**	**Value**	**Form**
Aluminum hydroxide (CAS 21645-51-2)	TWA	1 mg/m³	Respirable fraction.
Continuous filament glass fibre (CAS 65997-17-3)	TWA	1 fibers/cm³	"Respirable fibers (length > 5µm & aspect ratio ≤3:1)"
Kaolin (CAS 1332-58-7)	TWA	2 mg/m³	
Slag wool fiber (CAS N/A)	TWA	1 fibers/cm³	Respirable fraction. Fiber, respirable (length > 5 µm and aspect ratio ≤ 3:1)
Starch (CAS 9005-25-8)	TWA	10 mg/m³	

US. NIOSH: Pocket Guide to Chemical Hazards			
Components	**CAS Number**	**Value**	**Form**
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m³ 10 mg/m³	Respirable. Total
Continuous filament glass fibre (CAS65997-17-3)	TWA	3 fibers/cm³	"Respirable fibres (≤ 3.5 µm in diameter & ≤ 10 µm in length)"
Kaolin (CAS 1332-58-7)	TWA	5 mg/m³ 5 mg/m³ 10 mg/m³	Fibre, total Respirable. Total
Slag wool fibre (CAS N/A)	TWA	3 fibers/cm³	"Fibre, respirable (diameter ≤ 3.5 µm and length ≤ 10 µm)"
Starch (CAS 9005-25-8)	TWA	5 mg/m³ 5 mg/m³ 10 mg/m³	Fibre, total Respirable. Total

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls personal protective equipment

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure. Cut and trim with a utility knife or hand saw to minimize dust levels. If a router is used it must have a dust collection system. Operations such as power cutting, power kerfing or using compressed air to remove dust are not recommended (2). See Section 16 for further information.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved safety goggles.

Skin protection

Hand protection

It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Other

Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards

None

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appearance

Physical state

Solid.

Form

Panel.

Colour

White or colored surface; beige/gray core.

Odour

Low to no odour.

Odour threshold

Not applicable.

pH

9

Melting point/freezing point

Not applicable.

Initial boiling point and boiling range

Not applicable.

Flash point

Not applicable.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not applicable.

Flammability limit - upper (%)

Not applicable.

Explosive limit - lower (%)

Not applicable.

Explosive limit - upper (%)

Not applicable.

Vapour pressure

Not applicable.

Vapour density

Not applicable.

Relative density

0.2 - 0.24 (H_2O=1)

Solubility(ies)

Very low solubility in water.

Partition coefficient (n-octanol/water)

Not applicable.

Auto-ignition temperature

Not applicable.

Decomposition temperature

1000°C

Viscosity

Not applicable.

Other information

Bulk density

200-250 kg/m^3

VOC (Weight %)

0 %

Formaldehyde Emissions

Complies with Class E1 for Formaldehyde Emissions

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion

This product is not intended nor expected to be ingested or eaten. Ingestion may cause irritation and stomach discomfort.

Inhalation

Inhalation of dusts may cause respiratory irritation.

Skin contact

May cause irritation through mechanical abrasion.

Eyes contact

Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Under normal conditions of intended use, this material does not pose a risk to health.

Components	Species	Test Results
Aluminum hydroxide (CAS 21645-51-2)		
Acute	RAT	
Oral		> 5000 mg/kg
LD50		

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not expected to cause respiratory sensitization based on non-skin sensitization history.

Skin sensitization

Not expected to be a skin sensitizer.

Germ cell mutagenicity

Not expected to be mutagenic.

Carcinogenicity

This material is not classified as a carcinogen by IARC, ACGIH, NTP or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not classified.

Reproductive toxicity

Not classified.

Specific target organ toxicity - single exposure

No data available, but none expected.

Specific target organ toxicity - repeated exposure

No data available, but none expected.

Aspiration hazard

Due to the physical form of the product it is not an aspiration hazard.

Chronic effects

No other specific acute or chronic health impact noted.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Bioaccumulation is not expected.

Mobility in soil

No data available.

Other adverse effects

None expected.

13. DISPOSAL CONSIDERATIONS

Disposal instruction

Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

Local disposal regulations

Dispose of in accordance with local regulations.

Hazardous waste code

Not regulated.

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. TRANSPORT INFORMATION

Inventory of Chemical Substance:		
CAS#	1332-58-7	Kaolin
CAS#	9005-25-8	Starch
CAS#	21645-51-2	Aluminum hydroxide
CAS#	471-34-1	Calcium carbonate
CAS#	65997-17-3	Continuous filament glass fiber

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date

08-July-2026

Revision date

06-August-2026

Version #

01

Further information

Slag Wool Fibre: Large morbidity and mortality studies of both European and North American mineral wool manufacturing workers have been conducted. These studies have found no significant association of nonmalignant (i.e. fibrosis) or malignant (i.e., lung cancer or mesothelioma) lung disease and exposures to slag wool fibres and have not established a causal relationship between exposure and non-malignant or malignant diseases. In 2001, the International Agency for Research on Cancer (IARC) assigned slag wool fibre to the Group 3 category [“not classifiable as to carcinogenicity to humans”].
The synthetic mineral fiber used in this product is exonerated from classification as a\ carcinogen in accordance with Note Q in the EU Commission Directive 97/69/EC.

Titanium dioxide: Raw materials and/or coatings in this product contain small amounts of titanium dioxide. The International Agency for Research on Cancer (IARC) has determined that titanium dioxide is possibly carcinogenic to humans (Group 2B) based on inadequate evidence in humans and sufficient evidence in experimental animals. This conclusion relates to long-term inhalation exposure to high concentrations of pigmentary (powdered) or ultrafine titanium dioxide. However, no significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints.
The available human studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer (1). The American Conference of Governmental Industrial Hygienists (ACGIH) has designatedzthis chemical as not classifiable as a human carcinogen (A4). The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens.

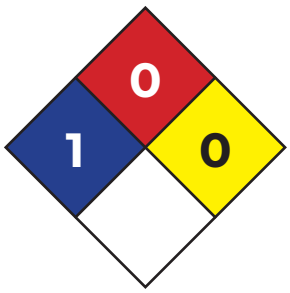
Continuous filament glass fibres: The International Agency for Research on Cancer (IARC) in June, 1987, categorized continuous filament glass fibres as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament glass fibre as a possible, probable, or confirmed cancer causing material. The ACGIH has established a TLV (Threshold Limit Value or recommended exposure limit) for continuous filament glass fibre of 1 fibre per cubic centimeter of air for respirable fibres and 5 mg per cubic meter of air for inhalable glass fibre dust. These levels were established to prevent mechanical irritation of the upper airways. IARC, NTP (US National Toxicology Program) and OSHA (US Occupational Safety and Health Administration) do not list continuous filament glass fibres as a carcinogen.
As manufactured, continuous filament glass fibres in this product are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.

NFPA Ratings:
Health: 1
Flammability: 0
Physical hazard: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS® ratings

Health: 1*
Flammability: 0
Physical hazard: 0

NFPA ratings



Abbreviations and acronyms

GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
IARC: International Agency for Research on Cancer
TWA: Time Weighted Average
PEL: Permissible Exposure Limit

Disclaimer

This information is provided without warranty. The information is believed to be correct.
This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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