

1442

SAFETY DATA SHEET

9713786
9714811**Aves® Paper Mache™**SDS No.: APM2016.1
Date Created: July 18, 2016
Supercedes: previous issue**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: Aves® Paper Machè
General Use: Sculpting & Modeling
Product Description: Multi-purpose, professional quality, powdered mache product. White in color and virtually odorless. Designed to be mixed with water to set solid in 30 minutes. Hard when fully cured; 1-4 days dependent on project size and drying conditions. For use on all conventional and hand lay-up applications.

MANUFACTURER
 Aves Studio, LLC
 PO Box 344, River Falls, WI 54022 U.S.A.
 715-386-9097

EMERGENCY TELEPHONE NUMBER:
 Rocky Mountain Poison and Drug Center
 303-739-1110

2. HAZARD IDENTIFICATION

Components having exposure limits established by recognized authorities or regulatory bodies.

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)				
	OSHA PEL	ACGIH TLV	Australian Std	NIOSH REL	AIHA WEEL
Perlite	15 mg/m ³ Total 5 mg/m ³ Resp.	withdrawn for insufficient data	10 mg/m ³	10 mg/m ³ Total 5 mg/m ³ Resp.	None Established
Nuisance Dust - (applies to silicates, polysaccharide)	15 mg/m ³ Total 5 mg/m ³ Resp.	10 mg/m ³ Total 5 mg/m ³ Resp.	None Established	None Established	None Established
Kaolin (aluminum silicate)	15 mg/m ³ Total 5 mg/m ³ Resp.	2 mg/m ³ Resp.	10 mg/m ³	10 mg/m ³ Total 5 mg/m ³ Resp.	None Established
*Crystalline silica	0.1 mg/m ³	0.1 mg/m ³	0.1 mg/m ³	0.05 mg/m ³	None Established
Calcium sulfate	15 mg/m ³ Total 5 mg/m ³ Resp.	10 mg/m ³	10 mg/m ³	10 mg/m ³ Total 5 mg/m ³ Resp.	None Established
Cellulose (fine grained)	15 mg/m ³ Total 5 mg/m ³ Resp.	10 mg/m ³	10 mg/m ³	10 mg/m ³ Total 5 mg/m ³ Resp.	None Established
Polyolefin	15 mg/m ³ Total 5 mg/m ³ Resp.	10 mg/m ³ Total 3 mg/m ³ Resp.	None Established	None Established	None Established

*Exists as a trace component in some of the ingredients.

PRODUCT CONFORMS TO SAFETY STANDARD ASTM INTERNATIONAL D4236

This set of products is designed to be safe and non-hazardous used as directed.
 Designed for use by children ages 5 and up in an adult supervised setting.

EMERGENCY OVERVIEW**GHS CLASSIFICATION OF SUBSTANCE**

Flammable Solid	Not Applicable
Aspiration Toxicity	Not Applicable
Skin Irritation	No classification Under GHS
Eye Irritation	Category 2B

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Carcinogenicity	Product contains trace levels of Crystalline silica (<1%) a Class I Carcinogen
Specific Target Organ Toxicity Repeated Exposure	No classification Under GHS
Specific Target Organ Toxicity Single Exposure	No Classification Under GHS
Reproductive Toxicity	No Classification Under GHS
Acute Toxicity	No Classification Under GHS
Germ Cell mutagenicity	No Classification Under GHS
Hazardous to the aquatic env.	No Classification Under GHS

GHS LABEL ELEMENTS



WARNING -
Components contain trace levels of crystalline silica. Crystalline silica is an inhalation hazard when airborne dust is created.

Hazard Statements
 H373 - May cause damage to lung through prolonged or repeated inhalation.
 H320 - Causes eye irritation

Precautionary Statements

General: P101 - If medical advice is needed, have product container or label at hand.
 P102 - Keep out of reach of children unless use is adult supervised.
 P103 - Read label before use.

Prevention: P261 - Avoid breathing dust.

Response: P302 + 352 - If on skin: wash with plenty of water.
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P305 + P351 + P338 - If in eyes: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.

Storage/Disposal: None Applicable

UN GHS According to the Globally Harmonized Standard for Classification and Labeling (GHS), this product should be handled with care to avoid dust generation (<1% crystalline silica)

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt%</u>	<u>CAS Registry #</u>
Aluminum Silicate	1 - 5	1332-58-7
Magnesium Silicate Hydrate	3 - 6	14807-96-6
Calcium Sulfate	50 - 80	26499-65-0
Crystalline Silica*	<0.8	14808-60-7
Polysaccharide	3 - 4	9004-53-9
Expanded Perlite	5 - 10	93763-70-3
Polyolefin	3.10 - 3	9002-88-4
powdered Cellulose	1 - 6	9004-34-6

*Exists as a trace component in some of the ingredients.

4. FIRST AID MEASURES

INHALATION:
 Product presents an inhalation hazard as a dust prior to mixing with water and solidifying and during any sanding of finished hardened item. Dust is expected to be alkaline and hygroscopic (water absorbing) based on composition. If user experiences respiratory irritation from the dust, seek medical attention.

EYE CONTACT:
 Remove contact lens (if present). Rinse eyes immediately with plenty of clean water for at least 15 minutes.

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If necessary, gently hold the eyelid open during the flush. If eye irritation persists, seek medical attention.

SKIN CONTACT:

Dry material is alkaline and hygroscopic. Both dry powder and wet mix may be irritating to the skin through dehydration. Wash hands after use if not using gloves. Apply a hand crème if dryness is noted. If irritation persists, seek medical attention. Product is not expected to be allergenic.

INGESTION:

Not a significant route of exposure. If accidentally ingested, do not induce vomiting. If a significant amount was ingested, give water by mouth to control set up. Seek immediate medical attention. Blockage may require surgical procedures.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable
Flammable Limits: Not Applicable
Autoignition Temperature: Not Applicable

GENERAL HAZARD:

Product is predominantly inorganic and not likely to support combustion.

FIRE FIGHTING INSTRUCTIONS:

Water fog or fine spray; dry chemical fire extinguishers; carbon dioxide fire extinguishers; foam; alcohol resistant foams (ATC type).

FIRE FIGHTING EQUIPMENT:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of protective equipment is generally unnecessary.

FURTHER INFORMATION:

During a fire, smoke may contain the original material in addition to combustion products which might be more irritating.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL RESPONSE:

The product is a dry powder. Shovel spilled material into a container for disposal. Dispose of in accordance with local regulatory requirements.

WATER SPILL:

The product is a dry powder meant to be mixed with water to form a work hard material. Depending on how the dry powder is introduced into the water body, it may disperse or it may form a solid material that can be recovered from the bottom of the water body.

RECOMMENDED DISPOSAL:

Not a U.S. Environmental Protection Agency RCRA hazardous waste unless mixed with something that would render it hazardous.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient **STORAGE PRESSURE:** Atmospheric

GENERAL:

Adding water to the dry product will cause it to solidify. Store in a dry location.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION
OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)				
	OSHA PEL	ACGIH TLV	Australian Std	NIOSH REL	AIHA WEEL
Perlite	15 mg/m ³ Total 5 mg/m ³ Resp.	withdrawn for insufficient data	10 mg/m ³	10 mg/m ³ Total 5 mg/m ³ Resp.	None Established
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Polyolefin	15 mg/m ³ Total 5 mg/m ³ Resp.	10 mg/m ³ Total 3 mg/m ³ Resp.	None Established	None Established	None Established

*Exists as a contaminant in some ingredients.

**Established for calcium sulfate with less than 1% crystalline silica and no asbestos.

ENGINEERING CONTROLS:

None Needed

PERSONAL PROTECTION:

Wear protective gloves that are polymeric (nitrile or latex) when working with wet or dry product if skin irritation occurs. Wear dust mask if sanding cured/finished material. Pre-mixed product can be an inhalation hazard if airborne dust is created. Once product is mixed with water, it is no longer a dust inhalation hazard.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not Applicable	Vapor Density:	Not Applicable
Specific Gravity:	Unknown	Evaporation Rate:	Not Applicable
Solubility in Water:	Negligible	Freezing Point:	Not Applicable
pH:	Not Applicable	Odor:	None
Boiling Point:	Not Applicable	Appearance:	White Granular
Viscosity:	Not Applicable	Physical State:	Solid
Flash Point:	Not Applicable	Flammable Range:	Not Applicable

10. STABILITY AND REACTIVITY

GENERAL:

Product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Acids, diazomethane, aluminum, and phosphorus.

HAZARDOUS DECOMPOSITION:

Carbon dioxide, carbon monoxide

11. TOXICOLOGICAL INFORMATION

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TOXICITY TO ANIMALS:

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Calcium sulfate	LD50 - oral	>5000 mg/kg	Rat
Perlite	LD50 - oral	>10,000 mg/kg	Guinea Pigs & Rats
Perlite	NOAEL - inhalation	226 mg/m ³	Guinea Pigs & Rats
Magnesium silicate hydrate	LD50 - oral	>10,000 mg/kg	Rat
Magnesium silicate hydrate	LD50 - dermal	>10,000 mg/kg	Rabbit
Cellulose	LD50 - oral	>5,000 mg/kg	Rat
Cellulose	LD50 - dermal	>2,000 mg/kg	Rabbit

ROUTES OF ENTRY:

Skin contact and eye contact; respiratory contact as a dust; ingestion as a solid.

CHRONIC EFFECTS ON HUMANS:

Because plaster of paris (calcium sulfate) hardens after absorbing moisture, its ingestion may result in obstruction, particularly at the pylorus (bottom of the stomach). To delay the "setting up" drink large volumes of water until medical treatment can be obtained. Surgical relief may be required. Calcium sulfate caused no lung disease in calcium sulfate miners (ACGIH, 1991). Health surveillance studies of workers in U.S. perlite mines and expansion plants with some exposures above OELs conducted over 20 years indicate that the respiratory health of workers is not adversely affected. Chronic exposure to magnesium silicate hydrate can lead to accumulation in the lungs, as in the pneumoconiosis called "Talcosis".

Eyes:

Dust is abrasive and alkaline and will irritate eyes if exposure to the dust is prolonged.

Skin:

Dust is abrasive, alkaline, and hygroscopic and will irritate skin if direct contact is prolonged. Dust is not expected to be allergenic.

Ingestion:

Hazard presented by ingestion is expected to be physical blockage rather than gastrointestinal problems. Ingestion of large quantities could result in serious blockage resulting in surgical procedures being required to remove the hardened material.

Inhalation:

Ingredients in this product contain crystalline silica as a contaminant. Inhalation of dust containing crystalline silica may result in silicosis, a progressive, disabling, and sometimes fatal disease. The International Agency for Research on Cancer has determined that crystalline silica is carcinogenic to humans (Group I - carcinogenic to humans). Handling the product as directed is not likely to produce significant dust. Product is designed to be mixed with water which eliminates a dust hazard. Sanding the hardened item will produce some dust, however, the crystalline silica content is low and sanding is not expected to cause a measurable crystalline silica exposure.

12. ECOLOGICAL INFORMATION

<u>Species</u>	<u>Test Information</u>	<u>Concentration</u>	<u>Component</u>
Bluegill fish	LC50 - 96 hrs	2,980 mg/L	Calcium Sulfate
Western mosquito fish	LC50 - 96 hrs	56,000 mg/L	Calcium Sulfate
Fathead Minnow	LC50 - 96 hrs	1,970 mg/L	Calcium Sulfate
Diatom	LC50 - 96 hrs	3,200 mg/L	Calcium Sulfate
Water flea	LC50 - 96 hrs	1,940 mg/L	Calcium Sulfate

Ecological information is limited but components are not considered acutely toxic. Not expected to be chronically toxic.

PRODUCTS OF BIODEGRADATION:

Hardened product is stable and does not biodegrade in air or water.

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13. DISPOSAL CONSIDERATIONS

Product is not a U.S. EPA RCRA hazardous waste based on components. Dispose of in accordance with local, state, federal regulations. Not a hazardous waste unless combined with hazardous materials.

14. TRANSPORT INFORMATION

The following proper shipping name, hazard class and packing group are in accordance to transportation regulations.

Mode of Transportation	Domestic Surface (USDOT)	Domestic Air	International Air (IATA)
UN Number	Not Regulated	Not Regulated	Not Regulated
Proper Shipping Name			
Hazard Class			
Packing Group			
Hazard Label			
Handling Label(s)			
ERG#:			
Packaging Instructions:			

15. REGULATORY INFORMATION

Chemical Inventory Status

Ingredients listed on: TSCA, DSL, Japan, and EC inventories.

SARA Section 302 - Emergency Planning Notification - None

SARA Section 304 - Emergency Release Notification - None

SARA 311/312 - Hazard categories for SARA Section 311/312 Reporting - None

CERCLA - Hazardous Substance - None

RCRA Hazardous Waste Classification - None

California Proposition 65:

Crystalline silica is listed on Prop 65. Crystalline silica is a contaminant in some of the ingredients in this product. Product is not expected to create a dust hazard under normal use where it is mixed with water and hardened into a form. Sanding the finished item will create dust, however, the crystalline silica content is so low it is not likely to be measurable based on past studies with products with similar silica contents.

16. OTHER INFORMATION

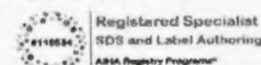
UNITED STATES NATIONAL FIRE PROTECTION ASSOCIATION (U.S. NFPA)

NFPA Category	Aves® Paper Machè
Health:	1
Fire:	0
Reactivity:	0

CREATION/REVISION SUMMARY:

Created on: 18-Jul-16

Cheryl Sykora, CIH, CSP, CHMM
 Registered Specialist, SDS and Label Authoring #118534
 LEGEND TECHNICAL SERVICES, INC.
 88 Empire Drive, Saint Paul, Minnesota 55103
 651-221-4085



THE INFORMATION RELATES TO THIS SPECIFIC PRODUCT. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.