

Material Safety Data Sheet - WillowProducts Waxes under various names including:
ZEN, FUSE, Max-11, 3Sixty, 360, Ice, Vapor, Air, Ether, Steam, Mist, Water, Earth, Fire, Metal, Wood, Stone

Section 1: Manufacturer Identification

Emergency Telephone Number: 931-434-1751 Telephone Number for Information: 931-434-1751 Date Prepared: 11/1/2010

Exact % of ingredients in each product protected as Trade Secret. Some of the products may OMIT some of the components listed below.

Section 2: Composition Information, or Ingredients

Components may include:	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended
Paraffin & Microcrystalline Wax			N//A	None
Carnauba (Natural Plant Wax)			N//A	None
Candelilla (Natural Plant Wax)			N//A	None
Beeswax (Refined and unrefined)			N//A	None
Stearin, Vegetable (in some formulas)			N//A	None
Pine Rosin (Natural plant extract)			N//A	None
Titanium Dioxide (Natural Mineral)			N//A	None
Natural Mineral Colorants < 2% of content			N//A	None
Proprietary Blend of natural minerals & clays			N//A	None
Mineral Oil			N//A	None
Coconut Oil (Natural oil)			N//A	None
Liquid Lanolin (Made from wool)			N//A	None

Section 3: Physical/Chemical Characteristics

<i>Boiling Point:</i>	<350°F	<i>Melting Point:</i>	Approx. 180°F
<i>Vapor Pressure (mm Hg):</i>	NDA	<i>Vapor Density (Air=1):</i>	>1
<i>Specific Gravity (H₂O=1):</i>	~ 1	<i>Evaporation Rate(Butyl Acetate=1):</i>	Nil
<i>Appearance, color & odor:</i>	Light to Medium Opaque Gray	<i>Solubility in Water:</i>	Nil

Section 4: Fire and Explosion Hazard Data

<i>Flash Point (method used):</i>	Estimated <400 (based on formulation)
<i>Flammable Limits:</i>	NDA
<i>Extinguishing Media:</i>	CO ₂ , Foam, Dry Chemical and Water Fog
<i>Special Fire Fighting Method:</i>	Wear self contained breathing gear in confined areas.
<i>Unusual Fire/Explosion Hazard:</i>	Heat only in open area and with proper equipment. Excessive heat can cause material to catch fire. Avoid open flame and application of direct heating elements.

Section 5: Reactivity Data

Stability: <i>Unstable:</i> <i>Stable:</i> X	
Conditions to Avoid: Strong Oxidants ; excessive heat	Incompatibility: Strong Oxidants
Hazardous Decomposition or Byproducts: Carbon Monoxide and other toxic fumes if burned , scorched , or heated excessively.	
Hazardous Polymerization: Unkown	Conditions to Avoid: Inadequate ventilation

Section 6 Health Hazard Data

Routes of Entry:	Inhalation? NA	Skin? NA	Ingestion? NA
Health Hazards (acute and Chronic): Possible Nausea upon ingestion. Some with sensitive skin should either test or avoid. All products should never be heated to point where smoke is produced. All smoke produced by any wax should be treated as toxic.			
Carcinogenicity: Unknown, though is believed safe (based upon formulation and published data). <i>IARC Monographs?</i> NA			
Regulated? No			
Medical Conditions Aggravated by Exposure: Possible allergic reaction to sensitive skin. Can burn skin when melted. Persons with any allergies to nut products or other plant materials should use precaution when handling. All products should never be heated to point where smoke is produced. All smoke produced by any wax should be treated as toxic.			
Emergency and First Aid: If melted, remove product and treat as a thermal burn. Product should be cooled as soon as possible.			

Section 7 Precautions for Safe Handling and Use

Steps to be Taken In Case Material is Spilled or Released: If melted and spilled, confine spill, cool and recover.

Waste Disposal Method: Compliance with applicable local, state, and federal regulations are solely the responsibility of user/purchaser.

Precautions to be Taken in Storing and Handling: Store away from open flame, strong oxidizers and heat. Good hygiene during and after handling is important for any non-food material. Use good common sense.

Other Precautions: When melted, adequate ventilation is very important. Fire hazard when melted or exposed to open flame. Those with any allergies to nut products or other plant materials should use precaution when handling. Good hygiene practices when eating or drinking after or during use of these products are important. All products should never be heated to point where smoke is produced. All smoke produced by any wax should be treated as toxic.

Section 8 Control Measures

Respiratory Protection (Specify Type): Normally not required., though adequate ventilation is extremely important when melting.

Local Exhaust: Adequate to capture fumes.

Mechanical(general): NA

Special: NDA

Other: NA

Protective gloves: Required only when Hot. *Eye Protection:* Safety Glasses

Other Protective Equipment or Clothing: NA *Work/Hygiene Practices:* Generally safe workplace practices. Adequate ventilation.

Section 9 Other Information

References: Published MSDS 's of product's components, personal experience, personal knowledge, and as much testing as was available at time of publication.

NFPA Ratings: Health:1 Flammability:1 Reactivity:0

All products should never be heated to point where smoke is produced. All smoke produced by any wax should be treated as toxic.

Compatibility tests should be conducted to ensure clean release and no damage when using this product with other materials such as release agents or molding compounds, or when casting this product into or onto molds. Climate and seasonal changes will affect this product. Summer heat, especially during transportation, can soften wax considerably and if not packaged properly could lead to damage of finished works. Cold weather can make wax products more brittle and prone to breakage.

Also note that these products are made for studio use. Shipping or mailing completed works of art in any non-permanent material such as wax can be risky due to expose of uncontrolled climates and due to handling.

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