



Old World Art

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Material Safety Data Sheet

Issue Date: 5-1-07

Product Name **OWA 802 – Adhesive Size**

Compound Type: Water based liquid adhesive

Manufactured by: Applied Products
 13152 East Imperial Highway
 Santa fe Springs, CA 90670
 U.S.A.

t | 888.700.5527
 f | 562.926.7382

Emergency Contact Number CHEMTREC (800) 424-9300

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

HAZARDOUS INGREDIENTS

Ingredient	% Wt.	PeI-OSHA	TLV-ACGIH
Vinyl Acetate-Dioctyl Maleate-2-Ethylhexyl Acrylate CAS # 25280-35-7	31%	Non-Hazardous	
Propylene Glycol CAS # 57-55-6	2%	Non-Hazardous	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Water based liquid with faint odor. Although not combustible, this liquid will burn if involved in a fire, releasing hydrocarbon products of combustion.

POTENTIAL HEALTH EFFECTS

Carcinogenicity NTP: NO IARC: NO NTP: NO

Chronic Health Hazards: Refer to Effects of Overexposure

Medical Conditions Generally Aggravated by Exposure: A review of available data does not identify any worsening of existing conditions not elsewhere mentioned in this MSDS.

Effects of Over Exposure: Liquid product contact may cause some possible skin and eye irritation.

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Acute: Inhalation of high concentrations of vapors or aerosols of this product may cause nausea and irritation of the nose, throat, and respiratory tract. Symptoms may include coughing, sore throat, and labored breathing. Respiratory symptoms associated with pre-existing lung disorders, such as asthma-like conditions, may be aggravated by exposure to this material.

May cause eye irritation. Direct contact with the liquid or exposure to vapors or aerosols may cause stinging, tearing and redness.

Not expected to be a skin irritant. However if allowed to remain on the skin without being rinsed off with water, a thin film may form. Removal of this film may result in slight irritation dependent on method of removal. Skin absorption is unlikely.

Low degree of toxicity by ingestion. Ingestion of excessive quantities may cause irritation of the digestive tract.

4. FIRST AID MEASURES

INHALATION	Remove from area, obtain medical attention immediately.
SKIN CONTACT	Rinse with plenty of soap and water, obtain medical attention.
EYE CONTACT	Flush eyes with plenty of water, obtain medical attention immediately.
INGESTION	Contact physician immediately for treatment instructions.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD	Not determined
FLAMMABLE LIMITS IN AIR	None
AUTOIGNITION TEMPERATURE	Not known
EXTINGUISHING MEDIA	Water, CO ₂ or dry chemical for dried film

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus approved by NIOSH. Use water spray to keep containers cool, to keep spillage away from fire and heat, and to knock down vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Burning dry film produces dense, black smoke with the potential for toxic vapors.

HAZARDOUS COMBUSTION PRODUCTS:

Combustion of dry film may produce toxic gasses such as oxides of carbon.

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6. ACCIDENTAL RELEASE MEASURES

Confine spill to prevent contamination of sewer system or ground water. Absorb liquid into appropriate absorbent. Spillage will cause slippery conditions. Dispose of in accordance with local, state and federal regulations regarding environmental control.

7. HANDLING AND STORAGE

- Avoid temperature extremes. **Keep from freezing.**
- Mixing without introduction of air may be necessary before use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

When permissible exposure limits are exceeded, use mask supplied with external air or other NIOSH approved respiratory protection, vinyl/rubber gloves, chemical safety goggles, and safety shower/eye wash station in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	Milky white liquid
BOILING POINT	212° F (water)
VAPOR DENSITY (AIR =1)	Same as water
VAPOR PRESSURE	Same as water
SOLUBILITY IN WATER	Miscible
FREEZING POINT	32° F (water)
SPECIFIC GRAVITY @75° F (WATER =1)	Approximately 1.1

10. STABILITY AND REACTIVITY

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: **Keep from freezing**

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce toxic gasses

11. REGULATORY INFORMATION

TSCA: All components of this product are listed on the TCSA Inventory.

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Issue Date: 1-2-13

Product Name **OWA 803-1**
Satin Sealer

Compound Type: Mineral spirits based sealer

Manufactured by: Applied Products
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U.S.A.

t | 888.700.5527
f | 562.926.7382

Emergency Contact Number CHEMTREC (800) 424-9300

2: COMPOSITION/INFORMATION ON INGREDIENT

HAZARDOUS INGREDIENTS

Ingredient	CAS	% Wt.	PeI-OSHA
Oil Modified Polyurethane Resin	N/A	39 – 41	NE
Stoddard Solvent	8052-41-3	59 – 61	61 – 63 500 ppm
Hydrotreated heavy naptha	64742-48-9	0.03 – 0.05	500 ppm
Cobalt 2-ethylexanoate	136-52-7	0.01 – 0.03	0.10 mg/m ³ (as metal)
Methyl ethyl ketoxime	96-29-7	0.08	NE

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Acute Exposure

Eyes: **Direct** contact with this material may cause severe eye irritation. May cause corneal injuries unless washed from eyes promptly.

Skin: Mildly to moderately irritating. Prolonged or repeated skin contact can result in defatting and drying of the skin. A single, prolonged exposure is not likely to result in the material's absorption through the skin in harmful amounts.

Inhalation: Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

Ingestion: Ingestion may irritate the mouth, throat and stomach. Aspiration into lungs may cause chemical pneumonia and lung damage. Ingestion is not an anticipated route of exposure for this material in industrial use.

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Chronic Exposure: Prolonged or repeated exposure may cause damage to the central nervous system and may result in permanent brain damage. Symptoms include: loss of memory, loss of judgment, and loss of coordination. Exposure to organic solvents during may cause an increased risk of birth defects.

Carcinogenicity: This material does not contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA) as a carcinogen.

4. FIRST AID MEASURES

Eye Contact: Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Skin Contact: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: DO NOT INDUCE VOMITING. **ASPIRATION HAZARD:** This material may enter the lungs during vomiting. Immediately give the victim one or two glasses of water or milk to drink. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation: Remove victim to fresh air. Keep warm and quiet. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. GET IMMEDIATE MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

Flash Point and Method	105°F SetaFlash Closed Cup
Flammable Limits in Air	1% lower, 6% upper
Autoignition Temperature	490° F

Extinguishing Media: Alcohol foam, dry chemical, carbon dioxide or any Class B fire extinguishing agent. Water may be unsuitable in extinguishing a fire with this material. However, water may be used to cool and prevent the rupture of containers that are exposed to the heat of a fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus approved by NIOSH. Use water spray to keep containers cool, to keep spillage away from fire and heat, and to knock down vapors.

Hazardous Combustion Products: Combustion of dry film may produce toxic gasses such as oxides of carbon.

NFPA Rating: Health – 1, Flammability – 2, Reactivity – 0

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6. ACCIDENTAL RELEASE MEASURES

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7. HANDLING AND STORAGE

Signal Word: *WARNING*

NO Smoking. Avoid inhalation and contact with eyes, skin, and clothing. Remove and wash contaminated clothing before reuse.

Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld braze, solder, drill, grind or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the containers may explode and cause injury and death.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

When permissible exposure limits are exceeded, use mask supplied with external air or other NIOSH approved respiratory protection, vinyl/rubber gloves, chemical safety goggles, and safety shower/eye wash station in work area.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE & ODOR	Clear amber, mild odor	BOILING POINT	315°F – 390°F
SOLUBILITY IN WATER	Insoluble	VAPOR DENSITY (AIR =1)	4.90
VAPOR PRESSURE	2 mm Hg @ 68°F	SPECIFIC GRAVITY @ 77° F (WATER =1)	0.85 – 0.88
FREEZING POINT	Not available		

10. STABILITY & REACTIVITY

This product is stable and hazardous polymerization will not occur.

Incompatible Materials and Conditions to Avoid: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may produce; carbon monoxide, carbon dioxide, and various hydrocarbons.

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11. REGULATORY INFORMATION

Acute Eye Toxicity:

Stoddard solvent: 500 mg/24 hr. (rabbit) moderate reaction
Hydrotreated heavy naphtha: Slight irritation

Acute Skin Toxicity:

Stoddard Solvent 2 g/kg intermittently over 4 weeks caused dermatitis in rabbits.
Hydrotreated heavy naphtha LD50 (dermal, rabbit) >2000 mg/kg; mild irritation
Methyl ethyl ketoxime LD50 (rabbit, skin) 1000 – 1800 mg/kg.; mild irritant. Skin sensitization (guinea pig).

Acute Inhalation Toxicity:

Stoddard Solvent LC50 (rat), >6.1 mg/l. Dose equals maximum achievable vapor concentrations.
Methyl ethyl ketoxime LC50 (rat, 4 hr) >4.8 mg/L.

Acute Oral Toxicity:

Stoddard solvent: Inhalation LC50 (rat), >5 g/kg.
Hydrotreated heavy naphtha LD50 (oral, rat) >5000 mg/kg
Cobalt 2-ethylhexanoate: LD50 (oral, rat) – 3900 mg/kg (based on similar material)
Methyl ethyl ketoxime LD50 (oral, rat) 2326 mg/kg

Subchronic:

Stoddard solvent: 2 g/kg intermittently over 4 weeks caused dermatitis in rabbits.

TSCA: All components of this product are listed on the TSCA Inventory.

Canadian Inventory Status: All components of this material are listed on the Canadian Domestic Substances List (DLS) SARA: Title III

340 CERCLA: This material does not contain any chemical regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification (CERCLA List)

311/312 HAZARD CATEGORIES: Immediate health hazard. Flammability hazard

Reporting requirements:

California Proposition 65: This product contains ethylbenzene which is known by the State of California (Safe Drinking Water and Toxic Enforcement Act of 1986) to cause cancer or reproductive toxicity.

12. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

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RCRA HAZARDOUS WASTE: This material and containers that are not empty, if discarded, would be regulated as a hazardous waste under RCRA. Treatment and/or disposal must be completed at a RCRA-permitted Treatment, Storage and Disposal Facility (TSD). The storage and transportation of RCRA hazardous wastes are also regulated by the USEPA.

"Empty containers", as defined under 40 CFR 261-7 or other applicable state or provincial regulations or transportation regulations, are not classified as hazardous wastes.

RCRA Hazard Class:

D001 (IGNITABLE): When discarded in its purchased form, this material would be regulated under 40 CFR 261.21 as EPA Hazardous Waste D001 based on the characteristic of ignitability.

13. TRANSPORT INFORMATION

IATA: Non Bulk

Proper Shipping Name: Resin Solution
 Hazard Class: 3
 ID Number: UN1866
 Packaging Group: III
 ERG Number: 127

TDG: Bulk

Proper Shipping Name: Elevated Temperature Liquid, Flammable, N.O.S.
 Hazard Class: Class 3
 ID Number: UN3256
 Packaging Group: PG III
 ERG Number: 128

IMDG: Bulk and Non-Bulk

Proper Shipping Name: Resin Solution
 Hazard Class: Class 3
 ID Number: UN1866
 Packaging Group: PG III
 ERG Number: 127

DOT: Bulk

Proper Shipping Name: Hot Resin Solution
 Hazard Class: 3
 ID Number: UN1866
 Packaging Group: III
 ERG Number: 127

Department of Transportation: This product, when packaged in non-bulk quantities (less than 119 gals, / 450 L) and shipped by ground, is not regulated as defined under 49CFR 173.150(f)(2) and the Canadian TDG, section 1.33.

This product, when shipped in bulk quantities (greater than 119 gals / 450 L) by ground and at a temperature greater than its flash point, would be shipped as Hot Resin Solution, UN1866, if shipped at a temperature at or less than its flash point, it would be shipped as Combustible Liquid, N.O.S., NA1993.

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14. REGULATORY INFORMATION

Occupational Safety and Health Act (OSHA): This material is classified as a hazardous chemical under the criteria of the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III: Section 302 – Extremely Hazardous Substances (EHS): This product does not contain any chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances.

SARA Title III: Section 304 – CERCLA: This product does not contain any chemicals regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification (“CERCLA” List).

SARA Title III: Section 311/312 – Hazard Communication Standard (HCS): This material is classified as an IMMEDIATE HEALTH HAZARD, DELAYED HEALTH HAZARD, AND FLAMMABILITY HAZARD under the US Superfund Amendment and Reauthorization Act (Section 311/312).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 8(b) – Inventory Status: All components of this material are listed on the US Toxic Control Act (TSCA) inventory.

TSCA Section 12(b) – Export Notification: This material does not contain any components that are subject to the US Toxic Substances Control Act.

Canadian Inventory Status: All components of this material are listed on the Canadian Domestic Substances List (DSL).

Canadian WHMIS: This material is classified by the Canadian Workplace Hazardous Material Information System as: B3 (combustible liquid) DB2 (materials causing other toxic effects, toxic material)

California Proposition 65: This product contains ethylbenzene which is known by the State of California (Safe Drinking Water and Toxic Enforcement Act of 1986) to cause cancer or reproductive toxicity.

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Issue Date: 1-1-08

Product Name **Composition Gold Leaf – 812, 814, 812C, 812B, 814B, 812H, 814H, 812K, 814K**

Compound Type: Extremely thin copper alloy foil

Manufactured by: Applied Products
13152 East Imperial Highway
Santa fe Springs, CA 90670
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t | 888.700.5527
f | 562.926.7382

Emergency Contact Number CHEMTREC (800) 424-9300

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

HAZARDOUS INGREDIENTS

Ingredient	% Wt.	PeI-OSHA	TLV-ACGIH
COPPER	85%	1 MG/M ³	1 MG/M ³
ZINC	15%	Not Established	5 MG/M ³

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Copper/zinc leaf is not easily inhaled or ingested. While using the product, small pieces are loosened. Health information could not be determined for metal leafing. The following information is for copper/zinc alloy powder, which is much smaller particle size than would be encountered with leafing.

POTENTIAL HEALTH EFFECTS

Chronic: chronic toxicity is confined to those persons suffering from pre-existing Wilson's disease

Medical conditions generally aggravated by exposure. The following conditions may be aggravated by exposure to copper or copper/zinc alloy powder:

- Persons afflicted with chronic respiratory disease and/or impaired pulmonary functions, especially those with obstructive airway diseases.
- Persons afflicted with pre-existing liver disease.

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- c) Persons afflicted with pre-existing kidney disease.
- d) Persons afflicted with pre-existing skin disorders.
- e) Persons afflicted with pre-existing blood disorders.
- f) Persons afflicted with pre-existing Wilson's disease.

Effects of overexposure: Copper metal is slightly toxic. Inhalation of copper or copper/zinc alloy powder may cause acute irritation of the nose and/or trachea; may produce acute gastro enteric symptoms resulting in vomiting and/or inflammation, and/or may cause acute metal fume fever. Exposure of skin to copper or copper zinc alloys powder may cause acute dermatitis. In the case of chronic exposure, the liver, kidneys, and/or spleen may be injured, and/or anemia may develop. Chronic toxicity is confined to those persons suffering from pre-existing Wilson's disease.

4. FIRST AID MEASURES

INHALATION	Remove from area. Obtain medical attention immediately.
SKIN CONTACT	Rinse with plenty of soap and water.
EYE CONTACT	Flush eyes with plenty of water, obtain medical attention immediately.
INGESTION	Contact physician immediately for treatment instructions.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD	Not determined
FLAMMABLE LIMITS IN AIR	None
EXTINGUISHING MEDIA	Dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Do not use water on this product. Use only an NFPA Class-D fire extinguisher containing dry chemical.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product contains brass sheets which is an alloy of copper and zinc. Since it contains zinc, may react with water to liberate hydrogen gas which will spread the fire.

6. ACCIDENTAL RELEASE MEASURES

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

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7. HANDLING AND STORAGE

Store in a cool dry environment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

When permissible exposure limits are exceeded, use mask supplied with external air or other NIOSH approved respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	Extremely thin copper alloy sheet
BOILING POINT	3,207° F
VAPOR DENSITY (AIR =1)	Heavier than air
VAPOR PRESSURE	N/A, solid
SOLUBILITY IN WATER	Not soluble
FREEZING POINT	N/A
SPECIFIC GRAVITY @75° F (WATER =1)	8.7

10. STABILITY AND REACTIVITY

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS & CONDITIONS TO AVOID: Mineral acids and other copper/zinc reactive agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous polymerization will not occur.

11. REGULATORY INFORMATION

TSCA: All components of this product are listed on the TCSA Inventory.

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