

27013-2409



APPLIED PRODUCTS

industrial solutions[®] : adhesives · assembly tools · automation

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Issue date: 05/01/07

Applied Products, Inc. t | 800.365.2480
 6035 Baker Road f | 800.324.8248
 Minnetonka, MN 55345

Tradename/Formula No: Caldex/Old World Art 812S, 814S
 Compound Type: Composition silver leaf

2. COMPOSITION / INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS

Ingredient	% Wt.	PEL-OSHA	TLV-ACGIH
Aluminum	100	15 mg/m ³	10 mg/m ³

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Aluminum leaf is not easily inhaled or ingested. While using this product, small pieces are loosened. Health information could not be determined for metal leafing. The following information is for aluminum powder, which is much smaller than would be normally encountered with leafing.

POTENTIAL HEALTH EFFECTS

Chronic Health Hazards : Pulmonary fibrosis from chronic inhalation has been reported. Chronic exposure has also produced numbness in fingers and (in one case) brain effects.

Medical Conditions Generally Aggravated by Exposure: THE FOLLOWING CONDITIONS MAY BE AGGRAVATED BY EXPOSURE TO ALUMINUM POWDER: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

Potential Effects of Over Exposure :

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Ingestion: Not considered toxic although aluminum chloride may form slowly in the digestive tract with nausea, vomiting, other gastrointestinal effects in extreme cases.

Skin Contact: May cause irritation with redness and pain.

Eye Contact: Causes irritation, redness and pain.

Page 1 of 3

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4. FIRST AID MEASURES

Eye Contact: Flush Immediately With Adequate Amounts Of Water For Fifteen (15) Minutes, Occasionally Lifting The Eyelids. Consult A Physician, Especially If Irritation Persists.

Skin Contact: Remove Contaminated Clothing; Launder Before Re-Use. Wash Skin With Mild Soap And Water; Apply A Good Quality Skin Cream. If Irritation Persists, Consult A Physician.

Ingestion: Drink Several Glasses Of Water And Consult A Physician. If Large Amounts Are Ingested, Get Medical Assistance Immediately.

Inhalation: Remove Person From Contaminated Area To Fresh Air. If Unconscious, Keep Breathing Passage Open And Have Emergency Medical Assistance Summoned Immediately. If Breathing Is Irregular Or Has Stopped, Start Resuscitation Immediately; Administer Oxygen If Available, And Have Emergency Medical Assistance Summoned Immediately.

5. FIRE FIGHTING MEASURES

Flash Point : NA
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 & Explosion Hazards:

Fire: Autoignition temperature for powder: 760C (1400F)

Explosion: Fine dust in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosive concentration: 0.04 oz/ft3.

6. ACCIDENTAL RELEASE MEASURES

Waste Disposal: Obey Relevant Local, State And Federal Laws. Do Not Contaminate Any Lakes, Streams, Ponds, Or Underground Water Supply.

Precautions to be taken in handling and storage: STORE IN A COOL DRY ENVIRONMENT.

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, chemical safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR

: Extremely thin aluminum sheet

Page 2 of 3

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SPECIFIC GRAVITY @75E F (WATER =1) : 2.63-3.12 g/cm3

10. STABILITY AND REACTIVITY

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Avoid contact with mineral acids and strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may produce toxic gasses.

11. REGULATORY INFORMATION

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

12. OTHER INFORMATION



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Issue date: 5/01/07

Tradename/Formula No: Caldex/Old World Art 802 Adhesive Size
Compound Type: Water based liquid adhesive

2. COMPOSITION / INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS

Ingredient	% Wt.	PeI-OSHA	TLV-ACGIH
VINYL ACETATE-DIOCTYL MALEATE-2-ETHYLHEXYL ACRYLATE	31	NON HAZARDOUS	
PROPYLENE GLYCOL	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.

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 may produce toxic gasses such as oxides of carbon.

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 @75E 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.

12. OTHER INFORMATION



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Issue date: 05/01/07

Tradename/Formula No: Caldex/Old World Art 803 Satin Sealer
Compound Type: Mineral spirits based sealer

2. COMPOSITION / INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS

Ingredient	% Wt.	PeI-OSHA	TLV-ACGIH
Vinyl Toluene CAS 250-15-4	0.5 – 1.75	100 ppm	50 ppm
Trimethylbenzene CAS 25551-13-7	0.5 – 1.75	NE	25 ppm
Modified Alkyl Resin	34 - 36	NE	NE
Stoddard Solvent CAS 8052-41-3	61 - 63	500 ppm	100 ppm
1, 2, 4-Trimethylbenzene CAS 95-63-6	0.2 – 0.5	NE	25 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear amber liquid with a mild odor.

COMBUSTIBLE LIQUID Vapor released from this material may form an explosive mixture with air. Vapor can travel to a source of ignition (spark or flame) and flash back.

POTENTIAL HEALTH EFFECTS

Acute Exposure:

Eyes: Direct contact with this material may cause eye irritation including tearing and redness.

Skin: Mildly 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: Inhalation of vapor or aerosol may cause irritation to the respiratory tract (nose, throat, and lungs). High vapor concentrations may cause central nervous system depression.

Ingestion: This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or lung damage. Ingestion is not an anticipated route of exposure for this material in industrial use.

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 pregnancy 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: 104 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 may produce toxic gasses such as oxides of carbon.

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

Signal Word: W A R N I N G

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 AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear amber mild odor
BOILING POINT:	315 F
VAPOR DENSITY (AIR =1):	> 1
VAPOR PRESSURE:	2 mm Hg at 68 F
SOLUBILITY IN WATER:	Insoluble
FREEZING POINT:	Not available
SPECIFIC GRAVITY @77 F (WATER =1):	Approximately 0.85

