

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: 440.0001100.046
Product Name: 110S GOLD LEAF 3U
Product Use: Paint product.
Print date: 2005/05/11
Revision Date: 2005/04/13

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2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	approx. Weight %	Chemical name
ALIPHATIC HYDROCARBON 64742-49-0	5 - 10	NAPHTHA, PETROLEUM, HYDROTREATED LIGHT
ISOPROPYL ALCOHOL 67-63-0	5 - 10	Isopropyl alcohol
DIMETHYL KETONE 67-64-1	20 - 25	ACETONE
PROPANE 74-98-6	20 - 25	Propane
ALIPHATIC PETROLEUM DISTILLATES 64742-89-8	15 - 20	SOLVENT NAPHTHA, PETROLEUM, LIGHT ALIPH
BUTANE 106-97-8	5 - 10	Butane
N-BUTYL ALCOHOL 71-36-3	1 - 5	n-Butyl alcohol
TOLUENE 108-88-3	1 - 5	Toluene
METAL POWDER 7440-50-8	1 - 5	Copper
EXEMPT MINERAL SPIRITS 8052-41-3	1 - 5	Stoddard solvent

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Product ID: 440.0001100.046

Primary Routes of Exposure:

Inhalation
Ingestion
Skin absorption

Emergency Overview:

This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:**Inhalation Effects:**

Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation. Exposure to high concentrations causes irritation of the respiratory tract. Can cause unconsciousness if inhaled.

Eye Contact:

Corneal Injury/eye damage. Causes eye irritation.

Skin Contact:

Harmful if absorbed through the skin.

Acute Ingestion:

Product has a low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause severe pulmonary injury or death.

Other Effects:

May cause central nervous system depression.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. May cause eye damage and pain. Frequent or prolonged contact may irritate and cause dermatitis. May cause skin drying with prolonged exposure. Prolonged and/or repeated contact can result in skin irritation. Possible birth defects hazard. Contains ingredients which may cause birth defects based on animal data. May cause kidney damage. Hearing loss. May cause liver damage.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Skin Contact:

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean

contaminated shoes. Flush with large amounts of water; use soap if available.

Ingestion:

If swallowed, do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If swallowed, get medical attention immediately.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31° F (-35° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	Not available.° F (° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

None known.

Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:

Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. This coating contains aluminum pigment, store in a dry area. Aluminum may react with water, acids and caustics slowly producing gas and heat. In a sealed drum this may cause a pressure build-up over a period of time and drum should be vented before opening.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:

Appropriate chemical resistant gloves should be worn. To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS-No.	approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
ISOPROPYL ALCOHOL 67-63-0	5 - 10	980 MGM3 400 ppm		
DIMETHYL KETONE 67-64-1	20 - 25	2400 MGM3 1000 ppm		
PROPANE 74-98-6	20 - 25	1800 MGM3 1000 ppm		
N-BUTYL ALCOHOL 71-36-3	1 - 5	300 MGM3 100 ppm		
TOLUENE 108-88-3	1 - 5	200 ppm	300 ppm	
METAL POWDER 7440-50-8	1 - 5	1 MGM3 Dust and mist. Cu 0.1 MGM3 Fume. Cu 5 MGM3 Respirable fraction. 15 MGM3 Total dust. Respirable fraction. Listed. Total dust. Listed.		
EXEMPT MINERAL SPIRITS 8052-41-3	1 - 5	2900 MGM3 500 ppm		

ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
ISOPROPYL ALCOHOL 67-63-0	5 - 10	200 ppm	400 ppm		
DIMETHYL KETONE 67-64-1	20 - 25	500 ppm	750 ppm		

PROPANE 74-98-6	20 - 25	1000 ppm			
BUTANE 106-97-8	5 - 10	1000 ppm			
N-BUTYL ALCOHOL 71-36-3	1 - 5	20 ppm			
TOLUENE 108-88-3	1 - 5	50 ppm			Can be absorbed through the skin.
METAL POWDER 7440-50-8	1 - 5	1 MGM3 Dust and mist. Cu 0.2 MGM3 Fume. 10 MGM3 Inhalable particles. 3 MGM3 Respirable particles.			
EXEMPT MINERAL SPIRITS 8052-41-3	1 - 5	100 ppm			

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor: Normal for this product type.
Physical State: Liquid
pH: Not determined.
Vapor pressure: NOT DETERMINED mmHG @ 68° F (20° C)
Vapor density (air = 1.0): 4.8
Boiling point: -42° F (-41° C)
Solubility in water: Not determined.
Coefficient of water/oil distribution: Not determined.
Density (lbs per US gallon): 5.88
Specific Gravity: .71
Evaporation rate (butyl acetate = 1.0): 5.6

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: This product may react with water, acids, and caustics, slowly producing gas and heat.
Incompatibility: Strong oxidizers.
Hazardous Polymerization: None anticipated.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Mutagens:

Product ID: 440.0001100.046

Common Name CAS-No.	approx. Weight %	Calif- Prop. 65. Developmental Toxicity	California Prop 65 - reproductive male
TOLUENE 108-88-3	1 - 5	Listed: January 1, 1991 Developmental toxin.	

Teratogens:

Carcinogens:

Common Name CAS-No.	approx. Weight %	NTP Known carcinogens	NTP Suspect carcinogens	NTP Evidence of carcinogenicity
TOLUENE 108-88-3	1 - 5			MALE RAT - NO EVIDENCE; FEMALE RAT - NO EVIDENCE; MALE MICE - NO EVIDENCE; FEMALE MICE - NO EVIDENCE.

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name: CONSUMER COMMODITY ORM-D
UN ID Number: CONCOM

49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

International Air Transport Association:

Proper Shipping Name: AEROSOLS, FLAMMABLE
Hazard Class: 2.1
UN ID Number: UN1950

International Maritime Organization:

Proper Shipping Name: AEROSOLS
Hazard Class: 2
UN ID Number: UN1950

Product ID: 440.0001100.046

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Common Name CAS-No.	approx. Weight %	SARA 302	SARA 313	CERCLA RQ IN LBS.
N-BUTYL ALCOHOL 71-36-3	1 - 5		form R reporting required for 1.0% de minimis concentration	5000
TOLUENE 108-88-3	1 - 5		form R reporting required for 1.0% de minimis concentration	1000
METAL POWDER 7440-50-8	1 - 5		form R reporting required for 1.0% de minimis concentration	5000

SARA 311/312 Hazard Class:

Acute: Yes
 Chronic: Yes
 Flammability: Yes
 Reactivity: No
 Sudden Pressure: Yes

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

BUTANE	106-97-8
TOLUENE	108-88-3
ALIPHATIC HYDROCARBON	64742-49-0
ALIPHATIC PETROLEUM DISTILLATES	64742-89-8
ISOPROPYL ALCOHOL	67-63-0
DIMETHYL KETONE	67-64-1
N-BUTYL ALCOHOL	71-36-3
PROPANE	74-98-6
METAL POWDER	7440-50-8
EXEMPT MINERAL SPIRITS	8052-41-3

California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Rule 66 status of product Not photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List.

Product ID: 440.0001100.046

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:

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