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Distributed by: Laguna Clay Company

Safety Data Sheet acc. to OSHA HCS

Printing date 08/19/2013 Reviewed on 08/19/2013

1 Identification

- · Product identifier Bright gold
- · Trade name:
- Product ID#: Laguna Gold Metallic Luster LC-201
- · Product Use: Coating compound/ Surface coating/ paint
- · Details of the supplier of the safety data sheet
- · Supplier:

Laguna Clay Company 14400 Lomitas Ave. City of Industry, CA 91746 1(800) 452 4862 1 (626) 333-7694 FAX

- · Information department: Product Safety Department 1 (610) 873-3200 M-F 8am-5pm
- · Emergency telephone number: 1 856 384-7050

2 Hazard(s) identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Harmful

Harmful by inhalation.



Severe Irritant

Irritating to skin.

Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- · Label elements
- · Labelling according to EU guidelines: The product has been marked in accordance with national laws.
- · Code letter and hazard designation of product:

Xn Harmful

· Hazard-determining components of labeling: cyclohexanol

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· Risk phrases:

Flammable.

Harmful by inhalation.

Irritating to skin.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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· Safety phrases:

Keep container in a well-ventilated place.

Keep away from heat.

Keep away from sources of ignition - No smoking.

Do not breathe gas/fumes/vapour/spray.

Avoid contact with eyes.

Avoid release to the environment. Refer to special instructions/Safety data sheets

· Special labeling of certain preparations:

Contains Turpentine, oil, Turpentine, oil. May cause an allergic reaction.

- · Hazard description:
- · Canadian Hazard Symbols

B2 - Flammable liquid

D2B - Toxic material causing other toxic effects



· American Hazard Description

Based upon the components the following hazards may exist:

Target Organs - Lungs, Central Nervous System

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 4 Reactivity = 0

· HMIS ratings (scale 0 - 4)



Health = 2

Fire = 4

EACTIVITY 0 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Solution of organo(precious) metal compounds and resins / waxes in a mixture of organic solvents and essential oils

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Hazardous componen		
CAS: 68365-87-7 EINECS: 269-858-3	gold pinanyl mercaptide → F R11 → H228	10-<25
CAS: 110-19-0 EINECS: 203-745-1	isobutyl acetate F R11 R66 H225	10-<25
CAS: 108-93-0 EINECS: 203-630-6 RTECS: GV 7875000	cyclohexanol Xn R20/22; Xi R37/38	10-<20
CAS: 125-12-2 EINECS: 204-727-6	iso-bornyl acetate H227	5-<109
CAS: 108-94-1 EINECS: 203-631-1 RTECS: GW 1050000	cyclohexanone Xn R20 R10	5-<109
CAS: 1330-20-7 EINECS: 215-535-7 RTECS: ZE 2100000	xylene, mixture of isomers Xn R20/21; Xi R38; N R51/53 R10 № H226; № H411; ↑ H312; H332; H315; H319	2.5-5%
CAS: 100-52-7 EINECS: 202-860-4 RTECS: CU 4375000	benzaldehyde Xn R22	1-5%
CAS: 92-52-4 EINECS: 202-163-5 RTECS: DU 8050000	biphenyl Xi R36/37/38; N R50/53 ♦ H400; H410; ♦ H315; H319; H335	1-<2.59
CAS: 141-78-6 EINECS: 205-500-4 RTECS: AH 5425000	ethyl acetate Xi R36; FR11 R66-67 H225; H319; H336	1-5%
CAS: 67874-71-9	bismuth octoate H227	≤1%
CAS: 95-50-1 EINECS: 202-425-9 RTECS: CZ 4500000	1,2-dichlorobenzene Xn R22; Xi R36/37/38; N R50/53 ♦ H400; H410; ↑ H302; H315; H319; H335; H227	< 0.5%
CAS: 8006-64-2 EINECS: 232-350-7 RTECS: YO8400000	Turpentine, oil Xn R20/21/22-65; Xi R36/38-43; N R51/53 R10 4 H226; 4 H304; 4 H411; 1 H302; H312; H332; H315; H319; H317	< 0.5%
CAS: 628-63-7 EINECS: 211-047-3 RTECS: AJ 2010000	pentyl acetate R10-66 H226	< 0.5%
CAS: 8006-64-2 EINECS: 232-350-7 RTECS: YO8400000	Turpentine, oil Xn R20/21/22-65; Xi R36/38-43; N R51/53 R10 ♦ H226; ♦ H311; ♦ H304; ♦ H411; ♦ H332; H315; H319; H317; H401	< 0.5%

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· Main components:		
CAS: 68365-87-7 EINECS: 269-858-3	gold pinanyl mercaptide F R11 H228	10-<25%
CAS: 110-19-0 EINECS: 203-745-1	isobutyl acetate F R11 R66 H225	10-<25%
CAS: 26678-93-3 polymer	formaldehyde, polymer with 4-(1,1,3,3 tetramethylbutyl)phenol	10-<25%
CAS: 108-93-0 EINECS: 203-630-6 RTECS: GV 7875000	cyclohexanol Xn R20/22; Xi R37/38	10-<20%
CAS: 125-12-2 EINECS: 204-727-6	iso-bornyl acetate H227	5-<10%
CAS: 108-94-1 EINECS: 203-631-1 RTECS: GW 1050000	cyclohexanone Xn R20 R10 ♠ H226; ♠ H332	5-<10%
CAS: 1330-20-7 EINECS: 215-535-7 RTECS: ZE 2100000	xylene, mixture of isomers Xn R20/21; Xi R38; N R51/53 R10 № H226; № H411; ↑ H312; H332; H315; H319	2.5-5%
CAS: 100-52-7 EINECS: 202-860-4 RTECS: CU 4375000	benzaldehyde	1-5%

· SVHC -

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Remove contaminated clothing and wash skin with soap and water. Wash or clean clothing before reuse.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear full firefighting gear and SCBA

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:



Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- \cdot Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- $\cdot \ \textbf{Additional information about design of technical systems:} \\$
- The application of this product requires well exhausted firing kilns and efficient ventilation of working areas.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

110-19	9-0 isobutyl acetate
PEL	700 mg/m³, 150 ppm
REL	700 mg/m³, 150 ppm
TLV	713 mg/m³, 150 ppm
108-93	3-0 cyclohexanol
PEL	200 mg/m³, 50 ppm
REL	200 mg/m³, 50 ppm Skin
TLV	206 mg/m³, 50 ppm Skin
108-94	1-1 cyclohexanone
PEL	200 mg/m³, 50 ppm
REL	100 mg/m³, 25 ppm Skin
TLV	50 mg/m³, 20 ppm Skin
1330-2	20-7 xylene, mixture of isomers
PEL	435 mg/m³, 100 ppm
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI
100-52	2-7 benzaldehyde
WEEL	Short-term value: 4 ppm Long-term value: 2 ppm DSEN
92-52-	4 biphenyl
PEL	1 mg/m³, 0.2 ppm
REL	1 mg/m³, 0.2 ppm
TLV	1.3 mg/m³, 0.2 ppm
141-78	3-6 ethyl acetate
PEL	1400 mg/m³, 400 ppm
REL	1400 mg/m³, 400 ppm
TLV	1440 mg/m³, 400 ppm
95-50-	1 1,2-dichlorobenzene

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REL	Short-term value: C 300 mg/m³, C 50 ppm
TLV	Short-term value: 301 mg/m³, 50 ppm Long-term value: 150 mg/m³, 25 ppm
8006-6	4-2 Turpentine, oil
PEL	560 mg/m³, 100 ppm
REL	560 mg/m³, 100 ppm
TLV	112 mg/m³, 20 ppm SEN
628-63	-7 pentyl acetate
PEL	525 mg/m³, 100 ppm
REL	525 mg/m³, 100 ppm
TLV	Short-term value: 532 mg/m³, 100 ppm Long-term value: 266 mg/m³, 50 ppm
A dditia	Long-term value: 266 mg/m³, 50 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.



Avoid contact with the skin.



Avoid contact with the eyes and skin.

· Protection of hands: Protective gloves

· Material of gloves Nitrile rubber, NBR Chemical resistant gloves

· Eve protection: Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Color: According to product specification

Odor: CharacteristicOdour threshold: Not determined.

· **pH-value:** Neutral

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· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)
· Flash point:	21 °C (70 °F) (ISO 3679)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	290 °C (554 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
· Explosion limits: Lower: Upper:	2.0 Vol % 11.2 Vol %
\cdot Vapor pressure at 20 °C (68 °F):	20 hPa (15 mm Hg)
Density:Relative densityVapour densityEvaporation rate	Not determined. Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: Water: Solvent (USA):	27.3 % 0.0 % 27.3 % 364.8 g/l / 3.04 lb/gl
Solids content: Other information	49.7 % No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- $\cdot \textbf{Possibility of hazardous reactions} \ No \ dangerous \ reactions \ known.$
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- $\cdot \ \textbf{Hazardous decomposition products:} \ \text{No dangerous decomposition products known.}$

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Toxicolo		
· Informati · Acute tox		cological effects
	·	t are relevant for classification:
	cyclohexan	
Oral	LD50	2060 mg/kg (rat)
108-94-1	cyclohexan	one
Oral	LD50	1900 mg/kg (rat)
Dermal	LD50	948 mg/kg (rabbit)
Inhalative	LC50/4 h	8000 mg/l (rat)
1330-20-7	xylene, m	ixture of isomers
Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)
100-52-7	benzaldehy	yde
Oral	LD50	1300 mg/kg (rat)
92-52-4 bi	iphenyl	
Oral	LD50	3280 mg/kg (rat)
141-78-6	ethyl aceta	te
Oral	LD50	4935 mg/kg (rabbit)
Inhalative	LC50/4 h	1600 mg/l (rat)
95-50-1 1,	2-dichloro	benzene
Oral	LD50	500 mg/kg (rat)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- $\cdot \ \textbf{Additional toxicological information:} \\$

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (Int	· IARC (International Agency for Research on Cancer)		
108-94-1	cyclohexanone	3	
1330-20-7	xylene, mixture of isomers	3	
95-50-1	1,2-dichlorobenzene	3	
· NTP (Nati	· NTP (National Toxicology Program)		
None of the ingredients is listed.			

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12 Ecological information

- · Toxicity
- 108-94-1 cyclohexanone

 Oral EC50/48 h
 820 mg/l (daphnia)

LC50/48 h 536 mg/l (fish) LC50/96 h (dynamic) 527 mg/l (fish)

92-52-4 biphenyl

· Aquatic toxicity:

Oral LC50/48 h 2.1 mg/l (daphnia)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes: Harmful to aquatic organisms
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA UN1263
- · UN proper shipping name
- DOT Paint
 ADR 1263 Paint
 IMDG, IATA PAINT
- · Transport hazard class(es)
- · DOT



· Class 3 Flammable liquids.

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(Contd. of page 10) 3 · Label · ADR, IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, ADR, IMDG, IATA II · Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): · EMS Number: F-E,S-E · Segregation groups Liquid halogenated hydrocarbons · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

UN1263, Paint, 3, II

15 Regulatory information

· UN "Model Regulation":

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):			
26678-93-3	formaldehyde, polymer with 4-(1,1,3,3 tetramethylbutyl)phenol	*	
108-93-0	cyclohexanol	*	
1330-20-7	xylene, mixture of isomers	*	
92-52-4	biphenyl	*	

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Warning: This product contains a chemical known to the State of California to cause cancer

None of the ingredients is listed.

· Warning: This product contains a chemical known to the State of California to cause female reproductive hazards.

None of the ingredients is listed.

· Warning: This product contains a chemical known to the State of California to cause male reproductive hazards

None of the ingredients is listed.

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· Warning:	This product contains a chemical known to the State of California to cause developm		i. of pa t toxi	0
	ingredients is listed.	iicii	t tom	City
	Ingredient disclosure list			
Limit 0,1%	~			
108-94-1 c	yclohexanone			
Limit 1%				
110-19-0 i	sobutyl acetate			
	yclohexanol			
100-52-7 b	enzaldehyde			
92-52-4 t	iphenyl			
141-78-6 e	thyl acetate			
Canceroge	nity categories			
EPA (Envi	ronmental Protection Agency)			
1330-20-7	xylene, mixture of isomers			I
92-52-4	biphenyl			D
TLV (Thre	shold Limit Value established by ACGIH)			
108-94-1	cyclohexanone			A3
1330-20-7	xylene, mixture of isomers			A4
MAK (Gei	man Maximum Workplace Concentration)			
108-94-1	cyclohexanone	3B	5.47	5%
92-52-4	biphenyl	3B	1.19	9%
8006-64-2	Turpentine, oil	3A	0.41	5%
78-59-1	isophorone	3B	0.00	02%
NIOSH-Ca	(National Institute for Occupational Safety and Health)			

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H228 Flammable solid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

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H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R20/21/22	2 Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/37/38	8 Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
· Classifica	ation of the substance or mixture
^	



GHS02 Flame

H225 Highly flammable liquid and vapour.



H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

· Contact:

J. Rose

EHS Specialist

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous version altered.

IS A -

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (800)-4Laguna Notice

Laguna Clay Company expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from Laguna Clay Company, California or www.Lagunaclay.com.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Laguna Clay Company makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Laguna Clay Company's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process



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