

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : Lacquer Stik® Gold

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Paint

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.
Parc Industriel de la Plaine de
l'Ain - Allée des Combes.
01150.BLYES.France.
Phone: +33 (0)4 74 46 23 23
Fax: +33 (0)4 74 46 23 29
E-mail: info@eu.laco.com
Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents/container to an authorised waste collection point

EUH-statements :

EUH208 - Contains rosin(8050-09-7). May produce an allergic reaction

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients**3.1. Substance**

Not applicable

3.2. Mixture

Comments : Only component with health hazards above the applicable thresholds and/or Exposure Limit values are shown

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Exact concentrations are withheld as trade secret

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Copper, dusts and mists (as Cu)	(CAS No) 7440-50-8 (EC no) 231-159-6	20 – 50	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Zinc (stabilised)	(CAS No) 7440-66-6 (EC no) 231-175-3 (EC index no) 030-001-01-9	1 – 15	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Silicon dioxide (amorphous)	(CAS No) 7631-86-9 (EC no) 231-545-4	0 – 10	Not classified
Paraffin waxes and Hydrocarbon waxes, microcryst	(CAS No) 63231-60-7 (EC no) 264-038-1	1 – 5	Not classified
rosin	(CAS No) 8050-09-7 (EC no) 232-475-7 (EC index no) 650-015-00-7	1 – 5	Skin Sens. 1, H317
aluminium powder (stabilised)	(CAS No) 7429-90-5 (EC no) 231-072-3 (EC index no) 013-001-00-1	0.1 – 1	Flam. Sol. 1, H228 Water-react. 2, H261
nickel dihydroxide	(CAS No) 12054-48-7 (EC no) 235-008-5 (EC index no) 028-008-00-X	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350i Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Gently wash with plenty of soap and water.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.
- First-aid measures after ingestion : Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after eye contact : May cause slight irritation.
- Symptoms/injuries after ingestion : Diarrhea. Nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Foam. Dry chemical.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No particular fire or explosion hazard.

5.3. Advice for firefighters

- Firefighting instructions : Keep upwind.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin and eyes. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

- Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.
- Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid.
Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.
Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible products : Oxidizer.
Incompatible materials : Heat sources.
Heat and ignition sources : Keep away from heat, sparks and flame.
Prohibitions on mixed storage : Keep away from incompatible materials.
Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Paint.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silicon dioxide (amorphous) (7631-86-9)		
United Kingdom	WEL TWA (mg/m ³)	6 mg/m ³ (inhalable aerosol) 2.4 mg/m ³ (respirable aerosol)
aluminium powder (stabilised) (7429-90-5)		
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)

8.2. Exposure controls

Appropriate engineering controls : Eyewash stations. Ensure good ventilation of the work station.
Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : In case of repeated or prolonged contact wear gloves. EN374.
Eye protection : Chemical goggles or safety glasses. EN166.
Respiratory protection : In case of inadequate ventilation wear respiratory protection. Wear appropriate mask. EN 12083.
Other information : Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : A solid crayon-like marker.
Colour : Gold.
Odour : Oily.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : 204 °C
Auto-ignition temperature : No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Oxidizer.

10.6. Hazardous decomposition products

Aldehydes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Copper, dusts and mists (as Cu) (7440-50-8)	
LD50 oral rat	> 2500 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.11 mg/l/4h
Silicon dioxide (amorphous) (7631-86-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 58.8 mg/l/4h
aluminium powder (stabilised) (7429-90-5)	
LD50 oral rat	> 15900 mg/kg
LC50 inhalation rat (mg/l)	> 2.3 mg/l/4h
Zinc (stabilised) (7440-66-6)	
LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5410 mg/m ³
Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7)	
LD50 oral rat	> 5000 mg/kg Sprague-Dawley
LD50 dermal rat	> 2000 mg/kg Sprague-Dawley
rosin (8050-09-7)	
LD50 oral rat	2800 mg/kg
LD50 dermal rat	> 2000 mg/kg No mortality observed
ATE CLP (oral)	2800.000 mg/kg bodyweight
nickel dihydroxide (12054-48-7)	
LD50 oral rat	1515 mg/kg

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nickel dihydroxide (12054-48-7)	
LD50 dermal rat	> 2 g/kg
LC50 inhalation rat (mg/l)	1200 mg/m ³ 4 h
ATE CLP (oral)	1515.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified. (No sensitizing reaction was observed for guinea pigs)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5700 mg/kg bodyweight Sprague-Dawley, no mortality observed
NOAEL (chronic, oral, animal/female, 2 years)	5700 mg/kg bodyweight Sprague-Dawley, no mortality observed

nickel dihydroxide (12054-48-7)	
NOAEL (chronic, oral, animal/male, 2 years)	2.2 mg/kg bodyweight read across Nickel Sulphate Hexahydrate
NOAEL (chronic, oral, animal/female, 2 years)	2.2 mg/kg bodyweight read across Nickel Sulphate Hexahydrate

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

Copper, dusts and mists (as Cu) (7440-50-8)	
LC50 fish 1	0.2 mg/l
EC50 Daphnia 1	0.041 mg/l
NOEC chronic fish	0.01 mg/l

Silicon dioxide (amorphous) (7631-86-9)	
LC50 fish 1	> 10000 mg/l
EC50 Daphnia 1	> 1000 mg/l

aluminium powder (stabilised) (7429-90-5)	
LC50 fish 1	218.64 mg/l ASTM 2000; test material: aluminium chloride hexahydrate; Pimephales promelas
EC50 Daphnia 1	1.4 mg/l OECD Guideline 202; test material: Aluminium hydroxide
LOEC (acute)	≈ 72.89 mg/l
NOEC (acute)	≈ 37.2 mg/l

Zinc (stabilised) (7440-66-6)	
LC50 fish 1	439 µg/l 96 h Cottus bairdii

Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7)	
LC50 fish 1	> 1000 mg/l 96 h, Oncorhynchus mykiss
EC50 Daphnia 1	> 1000 mg/l 48 h,

rosin (8050-09-7)	
LC50 fish 1	< 10 mg/l 96 h
EC50 Daphnia 1	911 mg/l 48 h

nickel dihydroxide (12054-48-7)	
LC50 fish 1	15.3 mg/l 96 h
EC50 Daphnia 1	> 200 µg/l 48 h

12.2. Persistence and degradability

Lacquer Stik® Gold	
Persistence and degradability	May cause long-term adverse effects in the environment.

Copper, dusts and mists (as Cu) (7440-50-8)	
Persistence and degradability	Not readily biodegradable.

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Silicon dioxide (amorphous) (7631-86-9)	
Persistence and degradability	Product persists.
Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7)	
Persistence and degradability	inherently biodegradable.
rosin (8050-09-7)	
Biodegradation	71 % 28 d
nickel dihydroxide (12054-48-7)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Copper, dusts and mists (as Cu) (7440-50-8)	
BCF fish 1	0.009
Bioaccumulative potential	Not expected to bioaccumulate.
rosin (8050-09-7)	
Log Pow	3 (3 - 6.2)
nickel dihydroxide (12054-48-7)	
BCF fish 1	600 - 26500 whole body d.w.; 0 to 26 day exposure

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Lacquer Stik® Gold	
PBT: not yet assessed	
vPvB: not yet assessed	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 3077
UN-No. (IATA)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (ADN)	: 3077

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Environmentally hazardous substance, solid, n.o.s. (copper, zinc)
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s. (copper, zinc)
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc)
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc)
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc), 9, III, (E)

14.3. Transport hazard class(es)

Class (ADR)	: 9
Classification code (ADR)	: M7
Class (IATA)	: 9
Class (IMDG)	: 9
Class (ADN)	: 9
Classification code (ADN)	: M7

14.4. Packing group

Packing group (ADR)	: III
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Packing group (IATA) : III
Packing group (IMDG) : III
Packing group (ADN) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
Classification code (ADR) : M7
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2Z

14.6.2. Transport by sea

EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

14.6.3. Inland waterway transport

Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content : 0 %

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

according to Regulation (EU) 2015/830

Indication of changes:
Original Document.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic

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	TWA: Time Weighted Average
	TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.
European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.
OSHA 29CFR 1910.1200 Hazard Communication Standard.
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Other information : None.

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Flam. Sol. 1	Flammable solids, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H228	Flammable solid
H261	In contact with water releases flammable gases
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

LA-CO EU CLP SDS United Kingdom

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product