

Material Safety Data Sheet

Silver-Streak® Metal Marker

1. Product and company identification

Product name	: Silver-Streak® Metal Marker
Material uses	: Marking and Identification.
Supplier/Manufacturer	: LA-CO Industries, Inc. 1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746
MSDS authored by	: KMK Regulatory Services Inc.
In case of emergency	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

2. Hazards identification

This MSDS reflects the health, physical and environmental hazards of the paint released by this product. Because of the nature of the finished product i.e. the fact that the paint is in solid form, and given that the paint is released in very small amounts during normal use, the user of the product and/or the reader of this MSDS should consider the potential exposure to the paint to be minimal and controlled during the normal use of the product. Refer to relevant sections of the MSDS (7 and 13) for additional information on handling and disposal considerations.

To avoid any potential hazard and to minimize the risk of exposure, it is important that the user of the product does NOT heat, burn or expose it to a source of intense heat unless the product is specifically intended for use on hot surfaces.

Emergency overview

Physical state	: Solid.
Color	: Not available.
Odor	: Not available.
Hazard statements	: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Eyes	: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: No known significant effects or critical hazards.

Over-exposure signs/symptoms



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2. Hazards identification

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : No specific data.
- Eyes** : No specific data.
- Medical conditions aggravated by over-exposure** : None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Talc	14807-96-6	10 - 30
Ethene, homopolymer	9002-88-4	10 - 30
Aluminum	7429-90-5	10 - 30
Paraffin wax	8002-74-2	10 - 30
Quartz	14808-60-7	0.1 - 1

Canada

Name	CAS number	%
Talc	14807-96-6	10 - 30
Aluminum	7429-90-5	10 - 30
Paraffin wax	8002-74-2	10 - 30

Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
Aluminum	7429-90-5	UN1309	10 - 30	-	1	2	0	-
Talc	14807-96-6	Not regulated.	10 - 30	1000 mg/m ³	2	0	0	-
Paraffin wax	8002-74-2	Not regulated.	10 - 30	-	0	1	0	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
- Protection of first-aiders** : No special protection is required.
- Notes to physician** : No specific treatment. Treat symptomatically.

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5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Spill** : Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
- Storage** : Store in accordance with local regulations.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Talc	<p>NIOSH REL (United States, 6/2009). TWA: 2 mg/m³ 10 hour(s). Form: Respirable fraction</p> <p>OSHA PEL Z3 (United States, 9/2005). STEL: 1 f/cc 30 minute(s). TWA: 20 mppcf 8 hour(s). TWA: 0.1 f/cc 8 hour(s).</p> <p>ACGIH TLV (United States, 2/2010). TWA: 0.1 f/cc 8 hour(s).</p>
Ethene, homopolymer	<p>OSHA PEL (United States, 2002). TWA: 5 mg/m³ 8 hour(s). Form: Respirable dust TWA: 15 mg/m³ 8 hour(s). Form: Total dust</p>
Aluminum	<p>NIOSH REL (United States, 6/2009). TWA: 5 mg/m³ 10 hour(s). Form: Respirable fraction TWA: 10 mg/m³ 10 hour(s). Form: Total</p> <p>OSHA PEL (United States, 6/2010). TWA: 5 mg/m³, (Al) 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³, (Al) 8 hour(s). Form: Total dust</p> <p>ACGIH TLV (United States, 2/2010). TWA: 1 mg/m³ 8 hour(s). Form: Respirable fraction</p>
Paraffin wax	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 mg/m³ 8 hour(s).</p> <p>ACGIH TLV (United States, 2/2010). TWA: 2 mg/m³ 8 hour(s). Form: Fume</p> <p>NIOSH REL (United States, 6/2009). TWA: 2 mg/m³ 10 hour(s). Form: Fume</p>
Quartz	<p>NIOSH REL (United States, 6/2009).</p>

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8. Exposure controls/personal protection

TWA: 0.05 mg/m³ 10 hour(s). Form: Respirable dust
ACGIH TLV (United States, 2/2010).
 TWA: 0.025 mg/m³ 8 hour(s). Form: Respirable fraction

Canada

<u>Occupational exposure limits</u>		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	Notations
Aluminum	US ACGIH 2/2010	-	1	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3] [b]
	BC 9/2010	-	1	-	-	-	-	-	-	-	[c]
	ON 7/2010	-	1	-	-	-	-	-	-	-	[a]
Aluminum, Al Talc	QC 6/2008	-	10	-	-	-	-	-	-	-	
	US ACGIH 2/2010	-	-	0.1 f/cc	-	-	-	-	-	-	
	BC 9/2010	-	2	-	-	-	-	-	-	-	[c]
Paraffin wax	ON 7/2010	-	-	0.1 f/cc	-	-	-	-	-	-	
	QC 6/2008	-	2	2 f/cc	-	-	-	-	-	-	
	US ACGIH 2/2010	-	3	-	-	-	-	-	-	-	[d]
	AB 4/2009	-	2	-	-	-	-	-	-	-	[e]
	BC 9/2010	-	2	-	-	-	-	-	-	-	[e]
	ON 7/2010	-	2	-	-	-	-	-	-	-	[e]
	QC 6/2008	-	2	-	-	-	-	-	-	-	[e]

[3]Skin sensitization

Form: [a]Respirable fraction [b]Metal dust [c]Respirable. [d]Respirable dust. [e]Fume

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Talc	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 2 mg/m ³ 8 hour(s).
Aluminum	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 5 mg/m ³ 8 hour(s). Form: Powder. LMPE-PPT: 5 mg/m ³ 8 hour(s).
Paraffin wax	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 6 mg/m ³ 15 minute(s). Form: smoke LMPE-PPT: 2 mg/m ³ 8 hour(s). Form: smoke

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : Use only with adequate ventilation.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : Not required for normal use of the pen/marker. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Not required for normal use of the pen/marker. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes : Not required for normal use of the pen/marker. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin : Not required for normal use of the pen/marker. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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8. Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

Physical state : Solid.

Flash point : Not available.

Burning time : Not available.

Burning rate : Not available.

Auto-ignition temperature : Not available.

Flammable limits : Not available.

Color : Not available.

Odor : Not available.

Taste : Not available.

Molecular weight : Not applicable.

Molecular formula : Not applicable.

pH : Not available.

Boiling/condensation point : Not available.

Melting/freezing point : Not available.

Critical temperature : Not available.

Relative density : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Volatility : Not available.

Odor threshold : Not available.

Evaporation rate : Not available.

SADT : Not available.

Viscosity : Not available.

Ionicity (in water) : Not available.

Dispersibility properties : Not available.

Solubility : Not available.

Physical/chemical properties comments : Not available.

10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

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11. Toxicological information

Acute toxicity

There is no data available.

Chronic toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Talc	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Paraffin wax	Eyes - Mild irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
	Eyes - Mild irritant	Rabbit	-	50%	-

Sensitizer

Skin : There is no data available.

Respiratory : There is no data available.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Talc	A4	1	-	None.	-	-
Ethene, homopolymer	-	3	-	None.	-	-
Aluminum	A4	-	-	-	-	-

Mutagenicity

There is no data available.

Teratogenicity

There is no data available.

Reproductive toxicity

There is no data available.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Aluminum	Acute LC50 120 ug/L Fresh water	Fish - Oncorhynchus mykiss - Embryo	96 hours

Persistence/degradability

There is no data available.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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14. Transport information

DOT/TDG/MXT/IMDG/IATA : Not regulated.

15. Regulatory information

United States

HCS Classification : Not regulated.

U.S. Federal regulations : TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Paraffin wax; Talc; Aluminum

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Paraffin wax: Immediate (acute) health hazard; Talc: Immediate (acute) health hazard; Aluminum: Fire hazard, reactive

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Aluminum	7429-90-5	10 - 30
Supplier notification	Aluminum	7429-90-5	10 - 30

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: Aluminum; Talc; Paraffin wax

New York : None of the components are listed.

New Jersey : The following components are listed: Aluminum; Talc; Quartz; Paraffin wax

Pennsylvania : The following components are listed: Aluminum; Talc; Quartz; Paraffin wax

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Quartz*	Yes.	No.	No.	No.

(*) These ingredients are not expected to be present as unbound, respirable particles during normal use of this product.

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

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15. Regulatory information

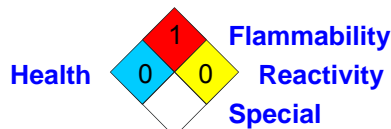
Canadian lists

- Canadian NPRI** : The following components are listed: Aluminum
CEPA Toxic substances : None of the components are listed.
Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :



16. Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.) : **Health** : 0 **Flammability** : 1 **Physical hazards** : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) : **Health** : 0 **Flammability** : 1 **Instability** : 0

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

- Date of issue mm/dd/yyyy** : 04/15/2012
Version : 1
Revised Section(s) : Not applicable.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.