

# Material Safety Data Sheet

**IMPORTANT NOTICE:** This Material Safety Data Sheet (MSDS) is issued by LA-CO Industries, Inc. (LA-CO) in accordance with the U.S. OSHA Hazard Communication Standard, Canadian WHMIS Controlled Products Regulations, British CHIP regulation 6, Australian NMRCWHS and ANSI Z400.1-1993 guidelines. The information contained herein must not be altered, deleted or added to, with the exception of adding supplier/importer information in the space provided. LA-CO has no objection to its MSDS being copied if: a) the copy is made for safety-related purposes; and b) no alterations or amendments are made to the text or format of the MSDS, with the exception of adding supplier/importer information in the space provided. LA-CO does not guaranty the accuracy of any MSDS for our products which: a) is not prepared by LA-CO; b) is not authorized by LA-CO; c) is not in the format originally supplied by LA-CO; or d) has otherwise been amended or altered by a third party, with the exception of adding supplier/importer information in the space provided. Official LA-CO MSDS's reside on its web site at [www.laco.com](http://www.laco.com).

**This document consists of two MSDS's**

- H Paintstik – White, Red, Blue, & Brown
- H Paintstik – Black, Green, & Yellow

## Section 1 Product and Company Identification

**Product Name:** H Paintstik – White, Red, Blue & Brown  
**Revision #:** 2.2      **Date Prepared:** January 1, 1997      **Date Revised:** February 5, 2010

**Manufacturer:**

**LA-CO INDUSTRIES, Inc. *Markal Co.***

1201 Pratt Blvd.

Elk Grove Village, IL, USA 60007-5746

**Information Telephone:** 847-956-7600

**Emergency Telephone:** Call CHEMTREC

USA 800-424-9300

International (Call Collect) 1-703-527-3887

**Chemical Formula:** Mixture

**CAS No.:** Not Applicable. **Derivation:** Not Applicable.

**Synonyms:** Not Applicable.

**General Use:** Marking crayon for hot metal surfaces.

**Supplier/Importer:**

## Section 2 Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
Sebacic Acid	111-20-6	30

(For Section 2 footnotes: See Section 15)

## Section 3 Hazards Identification

**EMERGENCY OVERVIEW:** FUMES MAY CAUSE IRRITATION.  
KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

### POTENTIAL HEALTH EFFECTS

**Primary Exposure Routes:** Eyes, Inhalation

#### Acute Effects

**Eyes:** Fumes may cause irritation.

**Skin:** None expected.

**Ingestion:** None expected.

**Inhalation:** Inhalation of fumes may cause irritation of the nose and throat.

**Chronic Effects**  
**Eyes:** None known      **Ingestion:** None known  
**Skin:** None known      **Inhalation:** None known  
**Carcinogenicity:** Not Applicable.  
**Target Organ Effects:** Not Applicable.  
**Medical Conditions Aggravated by Long-Term Exposure:** Not Determined.  
**Other Information:** Not Applicable.

## Section 4      First Aid

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Remove any contact lenses. Have victim roll eyes for more thorough flushing. Get medical attention if irritation persists.  
**Skin Contact:** Flush skin with water or wash with soap and water. Consult physician if irritation develops.  
**Ingestion:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. Give victim water to dilute.  
**Inhalation:** Remove victim to fresh air. Give oxygen if breathing is difficult. Give artificial respiration if breathing has stopped. Get medical attention.  
**Other Information:** None known

## Section 5      Fire Fighting Measures

**Flash Point (method):** 304<sup>0</sup>F/151<sup>0</sup>C (cc)      **Autoignition Temperature:** 1058<sup>0</sup>F/570<sup>0</sup>C  
**LEL:** Not Determined. **UEL:** Not Determined.  
**Flammability Classification:** Not Determined.  
**Extinguishing Media:** Water fog, foam, carbon dioxide, dry chemical.  
**Hazardous Combustion Products:** Carbon monoxide and possibly other toxic fumes.  
**Unusual Fire or Explosion Hazards:** None known.  
**Fire-Fighting Instructions/Equipment:** Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

## Section 6      Accidental Release Measures

Use recommended personal protective equipment (see Section 8).  
**Small Spill:** Sweep or scrape up.      **Large Spill:** Sweep or scrape up.

## Section 7      Handling and Storage

**Handling Precautions:** Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling.  
**Storage Requirements:** Store away from incompatible chemicals (see Sec. 10). Store in a cool, dry area.

## Section 8      Exposure Controls/Personal Protection

**Eye/Face Protection:** Safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.  
**Skin/Hand Protection:** Suitable for related activities where this product is used.  
**Respiratory Protection:** Use a NIOSH/MSHA approved air-purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and

limitations. Use a positive pressure air supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respiratory protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

**Other Equipment:** Eyewash and safety shower.

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to control sources of dust or fumes.

**Administrative Controls:** Users of this product must be properly trained and qualified in its use.

**Other Information:** No food or beverage should be consumed in the work area. Wash thoroughly before eating, drinking, or smoking.

## Section 9 Physical and Chemical Properties

**Appearance/Physical State:** Solid cylindrical crayon.

**Odor:** Not Applicable.

**Odor Threshold (ppm):** Not Determined.

**Specific Gravity (H<sub>2</sub>O = 1):** >1

**pH:** Not Applicable.

**Melting Point:** Approximately 150°F/66°C

**Boiling Point:** Not Determined.

**Vapor Pressure (mm Hg at 20°C):** Not Applicable.

**Vapor Density (Air = 1):** Not Applicable.

**Evaporation Rate (n-BuAc=1):** Not Applicable.

**V.O.C.:** 0%(w/w), 0%(v/v), 0 lbs./gal.(U.S.), 0 kg/l

**Flash Point (method):** (see Section 5)

**Solubility - Water:** Insoluble

- **Fat:** Soluble

**Coefficient of Water/Oil Solubility:** <<1

**Partition Coefficient (n-octanol/water):** >>1

**Autoignition Temperature:** (see Section 5)

**Flammability Classification:** (see Section 5)

**Unusual Fire or Explosion Hazards:** (see Section 5)

**Oxidising Properties:** Not Applicable.

**Other Information:** None Known.

**Note:** The physical data represented above are typical values and should not be construed as a specification.

## Section 10 Stability and Reactivity

**Chemical Stability:** Stable

**Conditions to Avoid:** None known

**Hazardous Decomposition Products (non-thermal):** Not determined

**Hazardous Polymerization:** Will Not Occur

**Chemicals to Avoid:** Strong oxidizers, acids, bases

## Section 11 Toxicological Information

**Sensitization to Product:** Not Applicable.

**Irritancy of Product:** Fumes possibly irritating to eyes and respiratory tract.

**Reproductive Toxicity:** Not Applicable.

**Teratogenicity:** Not Applicable.

**Mutagenicity:** Not Applicable.

Further hazard information, if applicable, may be found in Section 3. Toxicological information regarding individual ingredients, if applicable, may be found in Section 2.

## Section 12 Ecological Information

**Mobility:** Not Determined.

**Degradability:** Not Determined.

**Accumulation:** Not Determined.

**Ecotoxicity:** Not Determined.

**Other Adverse Effects:** Not Determined.

## Section 13 Disposal Considerations

Dispose of in accordance with all applicable regulations.

**The conditions of handling, storage, and use of this product are beyond our control and may be**

beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

## Section 14 Transport Information

**D.O.T. (U.S.):**  
**Proper Shipping Name:** Not Regulated.  
**Hazard Class or Division:** Not Regulated.  
**Hazard Label:** Not Regulated.  
**I.D. Number:** Not Regulated.

**TDG (Canada):** Not Regulated.  
**IATA:** Not Regulated.  
**ICAO:** Not Regulated.  
**IMO:** Not Regulated.

**Australian Code for the Transport of Dangerous Goods**  
**Dangerous Goods Class and Subsidiary Risk:** Not Determined.

## Section 15 Regulatory Information

### Footnotes for Section 2:

- 1 Subject to the reporting requirements of SARA Title III, Section 313.
- 2 Appears on the California Safe Drinking Water and Toxic Enforcement Act (Prop. 65) Substances List.
- 3 Appears on the Massachusetts Substances List.
- 4 Appears on the New Jersey Right-To-Know Hazardous Substances List.
- 5 Appears on the Pennsylvania Hazardous Substances List.
- 6 Appears on the Canadian WHMIS Ingredient Disclosure List.

### U.S.A.

**OSHA Hazard Status:** This product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

**EPA SARA sec. 311/312 Hazard Categories:** Immediate (Acute) Health Hazard.

**Toxic Substances Control Act (TSCA):** All ingredients contained in this product are listed on the U.S. EPA TSCA Chemical Substance Inventory.

**HMIS® Rating:** Health 1, Flammability 1, Reactivity 0

**NFPA® (704) Rating:** Health 1, Flammability 1, Reactivity 0

### CANADA

**WHMIS Status:** This product is considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.

**WHMIS Rating:** D1-B

**WHMIS Risk Phrases:** None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

**WHMIS Precautionary Statements:** None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

**Domestic Substances List (DSL):** All ingredients contained in this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

### E.U.

**European Inventory of Existing Chemical Substances (EINECS):** All ingredients contained in this product are listed on the European Inventory of Existing Chemical Substances (EINECS).

**Categories of Danger (Labeling Information):** None.

**Risk (R) Phrases:** Not required per regulation 9(7) or 9(8) of CHIP.

**Safety (S) Phrases:** Keep out of reach of children (S2), Do not breath fumes (S23)

Further regulatory information regarding individual ingredients, if applicable, may be found in Section 2.

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard, the Canadian WHMIS Controlled Products Regulations, the British CHIP2 regulation 6, and the Australian NMRCWHS. This MSDS contains the information required by the above regulations and conforms to ANSI Z400.1-1993.

<b>Section 16</b>	<b>Other Information</b>
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HMIS is a registered trademark of the National Paint and Coatings Association.

NFPA is a registered trademark of the National Fire Protection Association.

**MSDS Prepared By:** Director of Chemical Safety

**The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.**

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## Section 1 Product and Company Identification

**Product Name:** **H Paintstik – Black, Green & Yellow**  
**Revision #:** 2.2 **Date Prepared:** January 1, 1997 **Date Revised:** February 5, 2010

**Manufacturer:**  
**LA-CO INDUSTRIES, Inc. *Markal Co.***  
 1201 Pratt Blvd.  
 Elk Grove Village, IL, USA 60007-5746  
 Information Telephone: 847-956-7600  
 Emergency Telephone: Call CHEMTREC  
 USA 800-424-9300  
 International (Call Collect) 1-703-527-3887  
**Chemical Formula:** Mixture  
**CAS No.:** Not Applicable. **Derivation:** Not Applicable.  
**Synonyms:** Not Applicable.  
**General Use:** Marking crayon for hot metal surfaces.

**Supplier/Importer:**

## Section 2 Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
Sebacic Acid	111-20-6	30-50
<u>H Paintstik BLACK only</u>		
Carbon Black <sup>3,4,5,6</sup> ACGIH: TWA = 3.5 mg/kg, OSHA: TWA = 3.5 mg/kg	1333-86-4	2
<u>H Paintstik GREEN only</u>		
Cobalt Titanate Green Spinel This pigment contains the following heavy metals. The percent amounts listed represent the amount of these heavy metals contained in the H Green Paintstik.	68186-85-6	9
Antimony and compounds, as Sb <sup>1,3,4,5,6</sup> ACGIH: TWA = 0.5 mg/m <sup>3</sup> , OSHA: TWA = 0.5 mg/m <sup>3</sup> EPA: CERCLA RQ = 5000 lbs.; EPCRA sec. 313 de minimus concentration = 1.0%	7440-36-0	0.4
Cobalt <sup>1,2,3,4,5,6</sup> ACGIH: TWA = 0.05 mg/m <sup>3</sup> , OSHA: TWA = 0.1 mg/m <sup>3</sup> EPA: EPCRA sec. 313 de minimus concentration = 1.0%	7440-48-4	1
Nickel <sup>1,2,3,4,5,6</sup> ACGIH: TWA = 1 mg/m <sup>3</sup> , OSHA: TWA = 1 mg/m <sup>3</sup> EPA: CERCLA RQ = 100 lbs.; EPCRA sec. 313 de minimus concentration = 0.1%	7440-02-0	2
Zinc <sup>1,3,4,5</sup> EPA: CERCLA RQ = 1000 lbs.; EPCRA sec. 313 de minimus concentration = 1.0% (fume and dust)	7440-66-6	1.5
<b>This pigment is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides.</b>		
<u>H Paintstik YELLOW only</u>		
Nickel Antimony Titanium Yellow Rutile This pigment contains the following heavy metals. The percent amounts listed represent the amount of these heavy metals contained in the H yellow Paintstik.	8007-18-9	25
Antimony and compounds, as Sb <sup>1,3,4,5,6</sup> (See above for regulatory information)	7440-36-0	2.8



**Product Name:** H Paintstik – Black, Green & Yellow  
**Revision #:** 2.2      **Date Prepared:** January 1, 1997      **Date Revised:** February 5, 2010

**Flash Point (method):** 304<sup>0</sup>F/151<sup>0</sup>C (cc)  
**Autoignition Temperature:** 1058<sup>0</sup>F/570<sup>0</sup>C  
**LEL:** Not Determined. **UEL:** Not Determined.  
**Flammability Classification:** Not Determined.  
**Extinguishing Media:** Water fog, foam, carbon dioxide, dry chemical.  
**Hazardous Combustion Products:** Carbon monoxide and possibly other toxic fumes.  
**Unusual Fire or Explosion Hazards:** None known.  
**Fire-Fighting Instructions/Equipment:** Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

## Section 6 Accidental Release Measures

Use recommended personal protective equipment (see Section 8).  
**Small Spill:** Sweep or scrape up.    **Large Spill:** Sweep or scrape up.

## Section 7 Handling and Storage

**Handling Precautions:** Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling.  
**Storage Requirements:** Store away from incompatible chemicals (see Sec. 10). Store in a cool, dry area.

## Section 8 Exposure Controls/Personal Protection

**Eye/Face Protection:** Safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.  
**Skin/Hand Protection:** Suitable for related activities where this product is used.  
**Respiratory Protection:** Use a NIOSH/MSHA approved air-purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use a positive pressure air supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respiratory protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.  
**Other Equipment:** Eyewash and safety shower.  
**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to control sources of dust or fumes.  
**Administrative Controls:** Users of this product must be properly trained and qualified in its use.  
**Other Information:** No food or beverage should be consumed in the work area. Wash thoroughly before eating, drinking, or smoking.

## Section 9 Physical and Chemical Properties

<b>Appearance/Physical State:</b> Solid cylindrical crayon.	<b>Solubility - Water:</b> Insoluble
<b>Odor:</b> Not Applicable.	<b>- Fat:</b> Soluble
<b>Odor Threshold (ppm):</b> Not Determined.	<b>Coefficient of Water/Oil Solubility:</b> <<1
<b>Specific Gravity (H<sub>2</sub>O = 1):</b> >1	<b>Partition Coefficient (n-octanol/water):</b> >>1

**Product Name:** H Paintstik – Black, Green & Yellow  
**Revision #:** 2.2 **Date Prepared:** January 1, 1997 **Date Revised:** February 5, 2010

**pH:** Not Applicable. **Autoignition Temperature:** (see Section 5)  
**Melting Point:** Approximately 150°F/66°C **Flammability Classification:** (see Section 5)  
**Boiling Point:** Not Determined. **Unusual Fire or Explosion Hazards:** (see Section 5)  
**Vapor Pressure (mm Hg at 20°C):** Not Applicable. **Oxidising Properties:** Not Applicable.  
**Vapor Density (Air = 1):** Not Applicable. **Other Information:** None Known.  
**Evaporation Rate (n-BuAc=1):** Not Applicable. **Note:** The physical data represented above are typical values and should not be construed as a specification.  
**V.O.C.:** 0%(w/w), 0%(v/v), 0 lbs./gal.(U.S.), 0 kg/l  
**Flash Point (method):** (see Section 5)

## Section 10 Stability and Reactivity

**Chemical Stability:** Stable **Hazardous Polymerization:** Will Not Occur  
**Conditions to Avoid:** None known **Chemicals to Avoid:** Strong oxidizers, acids, bases  
**Hazardous Decomposition Products (non-thermal):** Not determined

## Section 11 Toxicological Information

**Sensitization to Product:** Not Applicable. **Reproductive Toxicity:** Not Applicable.  
**Irritancy of Product:** Fumes possibly irritating to eyes and respiratory tract. **Teratogenicity:** Not Applicable.  
**Mutagenicity:** Not Applicable.

Further hazard information, if applicable, may be found in Section 3. Toxicological information regarding individual ingredients, if applicable, may be found in Section 2.

## Section 12 Ecological Information

**Mobility:** Not Determined. **Ecotoxicity:** Not Determined.  
**Degradability:** Not Determined. **Other Adverse Effects:** Not Determined.  
**Accumulation:** Not Determined.

## Section 13 Disposal Considerations

Dispose of in accordance with all applicable regulations.

The conditions of handling, storage, and use of this product are beyond our control and may be beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

## Section 14 Transport Information

**D.O.T. (U.S.)** **TDG (Canada):** Not Regulated.  
**Proper Shipping Name:** Not Regulated. **IATA:** Not Regulated.  
**Hazard Class or Division:** Not Regulated. **ICAO:** Not Regulated.  
**Hazard Label:** Not Regulated. **IMO:** Not Regulated.  
**I.D. Number:** Not Regulated.

**Australian Code for the Transport of Dangerous Goods**  
**Dangerous Goods Class and Subsidiary Risk:** Not Determined.

## Section 15 Regulatory Information

Footnotes for Section 2:

Product Name:

## H Paintstik – Black, Green & Yellow

Revision #: 2.2

Date Prepared: January 1, 1997

Date Revised: February 5, 2010

- 1 Subject to the reporting requirements of SARA Title III, Section 313.
- 2 Appears on the California Safe Drinking Water and Toxic Enforcement Act (Prop. 65) Substances List.
- 3 Appears on the Massachusetts Substances List.
- 4 Appears on the New Jersey Right-To-Know Hazardous Substances List.
- 5 Appears on the Pennsylvania Hazardous Substances List.
- 6 Appears on the Canadian WHMIS Ingredient Disclosure List.

### U.S.A.

**OSHA Hazard Status:** This product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

**EPA SARA sec. 311/312 Hazard Categories:** Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard.

**Toxic Substances Control Act (TSCA):** All ingredients contained in this product are listed on the U.S. EPA TSCA Chemical Substance Inventory.

**HMIS® Rating:** Health 1\*, Flammability 1, Reactivity 0

**NFPA® (704) Rating:** Health 2, Flammability 1, Reactivity 0

### CANADA

**WHMIS Status:** This product is considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.

**WHMIS Rating:** D1-B, D2-B

**WHMIS Risk Phrases:** None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

**WHMIS Precautionary Statements:** None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

**Domestic Substances List (DSL):** All ingredients contained in this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

### E.U.

**European Inventory of Existing Chemical Substances (EINECS):** All ingredients contained in this product are listed on the European Inventory of Existing Chemical Substances (EINECS).

**Categories of Danger (Labeling Information):** Xn: Harmful

**Risk (R) Phrases:** Not required per regulation 9(7) or 9(8) of CHIP.

**Safety (S) Phrases:** Keep out of reach of children (S2), Do not breath fumes (S23)

Further regulatory information regarding individual ingredients, if applicable, may be found in Section 2.

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard, the Canadian WHMIS Controlled Products Regulations, the British CHIP2 regulation 6, and the Australian NMRCWHS. This MSDS contains the information required by the above regulations and conforms to ANSI Z400.1-1993.

## Section 16

## Other Information

HMIS is a registered trademark of the National Paint and Coatings Association.

NFPA is a registered trademark of the National Fire Protection Association.

**MSDS Prepared By:** Director of Chemical Safety

**The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.**