

## SAFETY DATA SHEET

### Section 1: Product and Company Identification

**Product Name:** Valve Action® Paint Marker – Brown, Purple, White, Yellow, Red, Black, Orange, Blue, Green, Gold, Light Green, Pink, Aluminum, Light Blue

**Product Code:** 96809 (brown), 96817 (purple), 96820 and 96800 (white), 96821 and 96801 (yellow), 96822 and 96802 (red), 96823 and 96803 (black), 96824 and 96807 (orange), 96825 and 96805 (blue), 96826 and 96806 (green), 96827 (gold), 96828 (light green), 96830 (pink), 96835 (light blue), 96832 and 96804 (aluminum)

**Product Use:** Marker for metal, wood, glass, plastic, rubber, cardboard and paper.

**Manufacturer:** LA-CO Industries, Inc.  
1201 Pratt Boulevard  
Elk Grove Village, IL.  
60007-5746  
E-mail Contact: customer\_service@laco.com

**Phone Number:** (847) 956-7600

**Fax:** (847) 956-9885

**24-hour Emergency:** CHEMTREC: (800) 424-9300

### Section 2: Hazards Identification

| Protective Clothing         | NFPA Rating (USA)   | EC Classification           | WHMIS (Canada) | Transportation |
|-----------------------------|---|-----------------------------|----------------|----------------|
| Not Required for Normal Use |  | Not Classified as Dangerous | Not Controlled | Not Regulated  |

**Emergency Overview:**

The paint inside the marker contains components which are considered hazardous by inhalation of vapors and skin contact. Exposure to hazardous or dangerous substances is not expected when handling this product for its intended use.

**Appearance, Color and Odor:** Marker containing less than 10 mL of various colored paint. Organic solvent odor.

USA: This product is not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Evaluation. This product meets the definition of an "article".

Canada: This is not a controlled product under WHMIS. This product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.

European Communities (EC): This product is not classified as dangerous according to Directive 1999/45/EC and its amendments. This product contains a small amount of a liquid preparation which contains dangerous ingredients however, there is no expected release of the liquid during use of the product and there is a barrier preventing exposure of the user and the environment.

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### Section 2: Hazards Identification (continued)

**Potential Health Effects:** ACUTE (short term): see Section 8 for exposure controls

**Relevant Route(s) of Exposure:** Skin contact.

**Inhalation:** Exposure to hazardous substances by inhalation is not expected with normal use of the marker.

**Ingestion:** Not an expected route of occupational exposure. Acute oral toxicity of the component substances is low.

**Skin:** Normal use of marker will not result in harmful effects. Contact with the paint may be harmful to the skin; may be absorbed through the skin.

**Eye:** Not an expected route of occupational exposure. Liquid and vapors can irritate the eyes.

**CHRONIC (long term): see Section 11 for additional toxicological data**

Long-term health effects are not expected with normal use of the marker.

Prolonged or repeated contact with the skin may result in defatting and drying of skin and may result in dermatitis.

**Medical Conditions Aggravated by Exposure:** Preexisting skin disorders may be aggravated by repeated exposure to the liquid in the marker.

**Interactions With Other Chemicals:** Not available

**Potential Environmental Effects:** Not available

### Section 3: Composition / Information on Ingredients

#### Hazardous/Dangerous Ingredients

##### For All Colors:

| <u>Chemical Name</u>        | <u>CAS No.</u> | <u>Wt.%</u> | <u>EINECS / ELINCS</u> | <u>Symbol</u> | <u>Risk Phrases</u>   |
|-----------------------------|----------------|-------------|------------------------|---------------|-----------------------|
| Solvent naphtha (petroleum) | 64742-88-7     | 15 - 25     | 265-191-7              | Xn            | R65                   |
| Stoddard Solvent            | 8052-41-3      | 5 - 15      | 232-489-3              | T             | Carc. Cat. 2 R45; R65 |
| Ligroine (VM&P Naphtha)     | 8032-32-4      | 5 - 45      | 232-453-7              | T             | Carc. Cat. 2 R45; R65 |
| Xylene                      | 1330-20-7      | 1 - 10      | 215-535-7              | Xn            | R10; R20/21; R38      |
| Ethylbenzene                | 100-41-4       | 1 - 5       | 202-849-4              | F; Xn         | R11; R20              |

#### Color-specific ingredients:

| <u>Chemical Name</u>   | <u>CAS No.</u> | <u>Wt.%</u> | <u>EINECS / ELINCS</u> | <u>Symbol</u> | <u>Risk Phrases</u> |
|--|----------------|-------------|------------------------|---------------|---------------------|
| Copper (Gold only)   | 7440-50-8      | 10 - 15     | 231-159-6*             | None*         | None*               |
| 2-methoxy-1-methylethyl acetate (Black and Light Green only) | 108-65-6       | 1 - 5       | 203-603-9              | Xi            | R10; R36            |
| Acetone  | 67-64-1        | 1 - 5       | 200-662-2              | F; Xi         | R11; R36-66-67      |
| Aluminum (Aluminum only)                                     | 7429-90-5      | 5 - 10      | 231-072-3              | F             | R15                 |
| Carbon Black   | 1333-86-4      | 5 - 10      | 215-609-9*             | None*         | None*               |

\* This chemical substance is not classified in the Annex I of Directive 67/548/EEC.

**Note:** See Section 8 of this SDS for exposure limit data for these ingredients.  
See Section 16 for the full text of the R-phrases above.

**SAFETY DATA SHEET****Section 4: First Aid Measures**

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.  |
| <b>Eye Contact:</b>  | No effects expected. If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice. |
| <b>Skin Contact:</b> | No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.          |
| <b>Ingestion:</b>    | If irritation or discomfort occurs, obtain medical advice immediately.   |

**Section 5: Fire Fighting Measures**

|   |   |
|---|---|
| <b>Flammable Properties:</b>                                  | Paint contained within the markers is flammable. Flashpoint = 23°C (73°F)   |
| <b>Suitable extinguishing Media:</b>                          | For small fires, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, use carbon dioxide, dry chemical powder, alcohol-resistant foam or polymer foam. Firefighting foams are the extinguishing agent of choice for most flammable liquid fires. Use water spray to cool fire-exposed containers. |
| <b>Unsuitable extinguishing Media:</b>                        | Not available   |
| <b>Explosion Data:</b>  |   |
| <b>Sensitivity to Mechanical Impact:</b>                      | Not applicable  |
| <b>Sensitivity to Static Discharge:</b>                       | Not applicable  |
| <b>Specific Hazards arising from the Chemical:</b>            | Combustion may produce toxic and irritating fumes and gases.  |
| <b>Protective Equipment and precautions for firefighters:</b> | Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.  |
| <b>NFPA</b>   |   |
| <b>Health:</b>  | 0   |
| <b>Flammability:</b>  | 1   |
| <b>Instability:</b>   | 0   |

**Section 6: Accidental Release Measures**

|                                   |   |
|-----------------------------------|---|
| <b>Personal Precautions:</b>      | No special requirements.<br>If large volumes of liquid paint are released, wear protective gloves, goggles and clothing. Monitor the workplace air for harmful concentrations of vapors and take appropriate precautions if concentrations in air exceed workplace exposure limits.   |
| <b>Environmental Precautions:</b> | Prevent the product from entering sewers or waterways.  |
| <b>Methods for Containment:</b>   | No special methods required. If large volumes of liquid paint are released, stop the leak if it is safe to do so. Contain spilled paint with earth, sand, or absorbent material which does not react with spilled material.   |
| <b>Methods for Clean-up:</b>      | Clean up spills immediately. Shut off or extinguish all sources of ignition. Immediately soak spilled material with water. Soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Dispose of any contaminated, unusable product as described in Section 13 of this Safety Data Sheet. |

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**Section 7: Handling and Storage**

**Handling:** Avoid contact with skin and eyes. Do not use near sources of extreme heat. Keep out of reach of children.

**Storage:** Store in a cool, dry area, out of direct sunlight and away from heat, flames and ignition sources. Keep markers closed when not in use.

**Section 8: Exposure Controls/Personal Protection**

**Exposure Guidelines**

Consult local authorities for acceptable exposure limits.

Measurable airborne concentrations of the component substances, listed in Section 3, are not expected when the markers are used for their intended purpose.

**Exposure Controls**

**Engineering Controls:** Not required for normal use.

**Personal Protection:**

**Eye/Face Protection:** Not required for normal use.

**Skin Protection:** Not required for normal use.

**Respiratory Protection:** Not required for normal use

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements, European Standard EN529 or Canadian Standards Association (CSA) Standard Z94.4-2002 must be followed whenever workplace conditions warrant a respirator's use.

**General Hygiene Measures:** Do not ingest. Avoid contact with skin and eyes. Keep out of reach of children. Wash hands after handling.

**Section 9: Physical and Chemical Properties**

|   |   |
|---|---|
| <p><b>Physical State:</b> Solid</p> <p><b>Appearance, Color and Odor:</b> Cylindrical marker; brown, purple, white, yellow, red, black, orange, blue, green, gold, light green, pink, light blue; odor of organic solvent.</p> <p><b>Odor Threshold:</b> Not available</p> <p><b>pH:</b> Not applicable</p> <p><b>Specific Gravity:</b> Not applicable</p> <p><b>Partition coefficient:</b> Not available</p> <p><b>Solubility:</b> Not applicable</p> <p><b>Viscosity:</b> Not applicable</p> <p><b>Decomposition Temperature:</b> Not available</p> | <p><b>Flash Point &amp; method:</b> 23°C (73°F) for liquid paint</p> <p><b>Autoignition Temperature:</b> Not available</p> <p><b>Flammability Limits in Air:</b> Not available</p> <p><b>Vapor Pressure:</b> Not applicable</p> <p><b>Vapor Density:</b> Not applicable</p> <p><b>Evaporation Rate:</b> Not applicable</p> <p><b>Boiling Point/Range:</b> Not available</p> <p><b>Melting Point:</b> Not available</p> <p><b>VOC Content:</b> 47 – 72% (w/w) for liquid paint</p> |
|---|---|

## SAFETY DATA SHEET

### Section 10: Stability and Reactivity

|  |  |
|--|--|
| <b>Chemical Stability:</b>                 | Stable at normal room temperature.         |
| <b>Conditions to Avoid:</b>                | Avoid extreme heat and open flames.        |
| <b>Incompatible Materials:</b>             | Incompatible with strong oxidizing agents. |
| <b>Hazardous Decomposition Products:</b>   | Carbon monoxide and carbon dioxide.        |
| <b>Possibility of Hazardous Reactions:</b> | Hazardous polymerization will not occur.   |

### Section 11: Toxicological Information

**Acute Toxicity Data** Acute toxicity data is not available for the liquid paint preparations inside the markers. The paint contains substances which are considered toxic and harmful by inhalation and in contact with skin however, there is no expected release of the liquid during the intended use of the marker and there is a barrier preventing exposure of the user and the environment.

**Chronic Toxicity Data**

**Carcinogenicity:** The components Stoddard solvent, Ligroine (VM&P Naphtha) are listed in the EU as R45, may cause cancer. Ethylbenzene is listed by IARC\* in Group 2B, possibly carcinogenic to humans, and by ACGIH\* as A3, confirmed animal carcinogen with unknown relevance to humans. Normal use of the markers is not expected to pose the risk of exposure to these substances.

\* IARC: (International Agency for Research on Cancer) ACGIH: (American Conference of Governmental Industrial Hygienists)

|                               |  |
|-------------------------------|--|
| <b>Irritation:</b>            | Normal use of marker will not result in harmful effects. High concentrations of vapors may cause irritation to the eyes. |
| <b>Corrosivity:</b>           | Not applicable   |
| <b>Sensitization:</b>         | Not applicable   |
| <b>Neurological Effects:</b>  | Not applicable with normal use of the marker.  |
| <b>Genetic Effects:</b>       | Not applicable with normal use of the marker.  |
| <b>Reproductive Effects:</b>  | Not applicable with normal use of the marker.  |
| <b>Developmental Effects:</b> | Not applicable with normal use of the marker.  |
| <b>Target Organ Effects:</b>  | Not applicable with normal use of the marker.  |

### Section 12: Ecological Information

|                                      |               |
|--------------------------------------|---------------|
| <b>Ecotoxicity:</b>                  | Not available |
| <b>Persistence/Degradability:</b>    | Not available |
| <b>Bioaccumulation/Accumulation:</b> | Not available |
| <b>Mobility:</b>                     | Not available |
| <b>Other adverse effects:</b>        | Not available |

## SAFETY DATA SHEET

### Section 13: Disposal Considerations

**Waste Disposal Method:** Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. The conditions of use, storage and disposal 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.

**USA:** Dispose of in accordance with local, state and federal laws and regulations.

**Canada:** Dispose of in accordance with local, provincial and federal laws and regulations.

**EC:** Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

### Section 14: Transport Information:

**U.S. Hazardous Materials Regulation (DOT 49CFR):** Not regulated, this product conforms to small quantity exception of DOT 49CFR173.4.

**Canadian Transportation of Dangerous Goods (TDG):** Not regulated

**ADR/RID:** Not regulated

**IMDG:** Not regulated

**Marine Pollutants:** Not applicable

**ICAO/IATA:** Not regulated

### Section 15: Regulatory Information

**USA**

**TSCA Status:** All component substances are listed on the TSCA inventory.

**SARA Title III**

Sec. 302/304: None

Sec. 311/312: Not applicable

Sec. 313: Xylenes, Ethylbenzene, Copper, Aluminum

CERCLA RQ: Not applicable

**California Prop 65:** This product contains the following chemicals known to the State of California to cause cancer: Ethylbenzene

**State Right-to-Know Lists :** State right to know lists:  
 Mineral spirits (NJ)  
 Stoddard Solvent (MA, NJ, PA)  
 VM&P Naphtha (NJ, PA)  
 Xylene (MA, NJ, PA)  
 Ethylbenzene (MA, NJ, PA)  
 Copper (MA, NJ, PA)  
 Acetone (MA, NJ, PA)  
 Aluminum (MA, NJ, PA)  
 Carbon black (MA, NJ, PA)

**SAFETY DATA SHEET****Canada**

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*.

**WHMIS Classification:** (for workplace exposures) Not controlled. Product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.

**New Substance Notification Regulations:** All component substances are listed on Canada's Domestic Substances List (DSL).

**NPRI Substances:** Xylene, VM&P Naphtha, Ethylbenzene, Copper, Solvent naphtha, Stoddard solvent, Ethylbenzene, Copper, Propylene glycol methyl ether acetate (108-65-6), Aluminum.

**EC Classification for the Substance/Preparation**

**European Inventories:** All component substances are listed in EINECS.

**Symbol:** This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Section 16: Other Information****Full Text of R-phrases appearing in Section 2:**

R10: Flammable  
R11: Highly flammable  
R15: Contact with water liberates and extremely flammable gas.  
R20: Harmful by inhalation  
R20/21: Harmful by inhalation and in contact with skin  
R36: Irritating to eyes  
R38: Irritating to skin  
R45: May cause cancer  
R65: May cause lung damage if swallowed  
R66: Repeated exposure may cause skin dryness and cracking.  
R67: Vapours may cause drowsiness and dizziness.

**Preparation Information:**

**Prepared by:** LEHDER Environmental Services Limited (519) 336-4101  
www.lehder.com

**Preparation date:** November 1, 2005

**Revision Date:** July 31, 2008

**Revision Summary:** November 1, 2005 revised first page header, sections 3, 4, 11, 14 and 15.  
July 31, 2008 revised SDS template, revised formulation in Section 3.

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