



SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: PRO-WASH™ W Water Removable Paint Marker – White, Yellow, Red, Black, Blue, Green
Product Code: 97030 (white), 97031 (yellow), 97032 (red), 97033 (black), 97035 (blue), 97036 (green)
Product Use: Temporary marker for metal, glass, plastic and other non-porous surfaces.
Supplier: LA-CO Industries, Inc.
 1201 Pratt Boulevard
 Elk Grove Village, IL.
 60007-5746
 E-mail Contact: customer_service@laco.com
Phone: (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 liquid inside the marker contains components which are considered flammable and 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 free liquid (until the tip is actuated and the liquid wets the nib). Marker is available in white, yellow, red, black, green and blue. Slight alcohol 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.

Potential Health Effects: **ACUTE (short term):**

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. The liquid may cause irritation when in contact with the skin.

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



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Section 2: Hazards Identification, continued

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 of the liquid to 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:

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>Wt.%</u> | <u>EINECS / ELINCS</u> | <u>Symbol</u> | <u>Risk Phrases</u> |
|----------------------|----------------|-------------|------------------------|---------------|---------------------|
| Ethanol | 64-17-5 | 45 – 65 | 200-578-6 | F | R11 |
| Heptane | 142-82-5 | 1 – 5 | 205-563-8 | F; Xn; Xi; N | R11-38-50/53-65-67 |

See Section 16 for the full text of the R-phrases above.

Section 4: First Aid Measures

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.

Eye Contact: No effects expected. If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Skin Contact: No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Ingestion: If irritation or discomfort occurs, obtain medical advice immediately.

Section 5: Fire Fighting Measures

Flammable Properties: Liquid contained within the markers is flammable.

Suitable extinguishing Media: 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.

Unsuitable extinguishing Media: Not available

Explosion Data:

Sensitivity to Mechanical Impact: Not applicable

Sensitivity to Static Discharge: Not applicable



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Section 5: Fire Fighting Measures, continued

Specific Hazards arising from the Chemical: If involved in a fire, combustion may produce toxic and irritating fumes and gases.

Protective Equipment and precautions for firefighters: Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.

NFPA

| | |
|---------------|---|
| Health: | 0 |
| Flammability: | 1 |
| Instability: | 0 |

Section 6: Accidental Release Measures

Personal Precautions: If large volumes of liquid are released, wear protective gloves, goggles and clothing. Ventilate the area. Monitor the workplace air for harmful concentrations of vapors and take appropriate precautions if concentrations in air exceed workplace exposure limits.

Environmental Precautions: Prevent the product from entering sewers or waterways.

Methods for Containment: If large volumes of liquid are released, stop the leak if it is safe to do so. Contain spilled liquid with earth, sand, or absorbent material which does not react with spilled material.

Methods for Clean-up: 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 SDS.

Section 7: Handling and Storage

Handling: Avoid breathing vapors. 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

Measurable airborne concentrations of the component substances, listed in Section 3, are not expected when the markers are used for their intended purpose. Consult local authorities for acceptable exposure limits.

| Ingredient | <u>ACGIH TLV</u> (8-hr. TWA) | <u>U.S. OSHA PEL</u> (8-hr. TWA) | <u>Ontario (Canada)</u> <u>TWAEV</u> | <u>UK OEL</u> (8-hr. TWA) |
|------------|---------------------------------|--------------------------------------|------------------------------------------------------------------------------|--------------------------------------|
| Ethanol | 1000 ppm STEL | 1900 mg/m ³ (1000 ppm) | 1900 mg/m ³ (1000 ppm) | 1920 mg/m ³ (1000 ppm) |
| Heptane | 400 ppm 500 ppm (STEL) | 2000 mg/m ³ (500 ppm) | 1635 mg/m ³ (400 ppm) 2045 mg/m ³ (500 ppm) STEV | 2085 mg/m ³ (500 ppm) |



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Section 8: Exposure Controls/Personal Protection, continued

Exposure Controls

Engineering Controls: Not required for normal use.

Personal Protection:

Eye/Face Protection: Not required for normal use. In case of accidental release of large quantities of liquid, wear goggles.

Skin Protection: Not required for normal use. In case of accidental release of large quantities of liquid, wear gloves.

Respiratory Protection: Not required for normal use.

General Hygiene Measures: Avoid breathing vapors. Do not ingest. Avoid contact of the liquid to skin and eyes. Keep out of reach of children.

Section 9: Physical and Chemical Properties

| | | | |
|--------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|-----------------------------------|
| Physical State: | Solid, containing liquid. | Flash Point & method: | -2 ± 1°C (29 ± 2°F) |
| Appearance, Color and Odor: | Valve-actuating tip marker containing colored liquid. Liquid has odor of alcohol. | Autoignition Temperature: | Not available |
| Odor Threshold: | Not available | Flammability Limits in Air: | Not available |
| pH: | Not applicable | Vapor Pressure: | 30.00 for liquid |
| Specific Gravity: | Not available | Vapor Density: | Not applicable |
| Partition coefficient: | Not available | Evaporation Rate: | Not applicable |
| Solubility: | Not applicable | Boiling Point/Range: | Not available |
| Viscosity: | Not applicable | Melting Point: | Not available |
| <u>VOC % by volume:</u> | 68.37 – 74.78 ± 2 % | <u>VOC % by weight:</u> | 51.70 – 65.8 ± 2 % |
| <u>VOC weight per gallon:</u> | 7.48 – 8.93 ± 2 % | <u>VOC as supplied:</u> | 4.5301 – 4.9417 pounds per gallon |

Section 10: Stability and Reactivity

Chemical Stability: Stable at normal room temperature.

Conditions to Avoid: Do not use in conditions of extreme heat or near open flames.

Incompatible Materials: Incompatible with strong oxidizing agents, strong acids, strong alkalies, amines, alkanamines, sodium, potassium, magnesium, aldehydes.

Hazardous Decomposition Products: Not applicable

Possibility of Hazardous Reactions: Not applicable



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Section 11: Toxicological Information

Acute Toxicity Data

| <u>Ingredient</u> | <u>LD₅₀ Oral</u> (mg/kg) | <u>LD₅₀ Dermal</u> (mg/kg) | <u>LC₅₀ Inhalation</u> (4 hrs.) |
|-------------------|----------------------------------------|------------------------------------------|-----------------------------------------------|
| Ethanol | 7 060 (rat) | Not available | 39 000 (mouse) |
| Heptane | > 15 000 (rat) | Not available | 25 000 (rat) |

Acute toxicity data is not available for the liquid preparations inside the markers. The liquid contains substances which are considered irritants in contact with skin; Harmful, may cause lung damage if swallowed and vapors may cause drowsiness and dizziness. Exposure to irritating and harmful substances by the user is not expected when the marker is used for its intended purpose.

Other Toxicity Data

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|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carcinogenicity: | The component Ethanol is listed by ACGIH (American Conference of Governmental Industrial Hygienists) 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 carcinogenic substances. |
| Irritation: | Normal use of marker will not result in harmful effects. Liquid may cause irritation in contact with skin. |
| Corrosivity: | Not applicable |
| Sensitization: | Not applicable |
| Neurological Effects: | Not applicable with normal use of the marker. |
| Genetic Effects: | Not applicable with normal use of the marker. |
| Reproductive Effects: | Not applicable with normal use of the marker. |
| Developmental Effects: | Not applicable with normal use of the marker. |
| Target Organ Effects: | Not applicable with normal use of the marker. |

Section 12: Ecological Information

| | |
|--------------------------------------|---------------|
| Ecotoxicity: | Not available |
| Persistence/Degradability: | Not available |
| Bioaccumulation/Accumulation: | Not available |
| Mobility: | Not available |

Section 13: Disposal Considerations

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|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |



Product Name: PRO-WASH W
Revision Date: November 17, 2011

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Section 14: Transport Information:

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|---------------------------------------------------|-------------------------------------------------------------------------------------|
| 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: Flammable
Sec. 313: Not applicable
CERCLA RQ: Not applicable

California Prop 65: This product contains the following chemicals in trace quantities known to the State of California to cause cancer: Chromium (hexavalent compounds), 1,4-Dioxane, Formaldehyde, Acetaldehyde and Ethylene oxide.

State Right-to-Know Lists : Ethanol and Heptane can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota and Massachusetts.
*Chromium compounds can be found on the following state right to know lists: Pennsylvania. *Chromium compounds in black marker only.

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

New Substance Notification Regulations: Exempt, NSNR state that inks in markers are excluded from the definition of a substance.

NPRI Substances: Not applicable

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.



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Section 16: Other Information

Full Text of R-phrases appearing in Section 2:

R11: Highly Flammable.
R38: Irritating to skin.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: May cause lung damage if swallowed.
R67: Vapors may cause drowsiness and dizziness.

Preparation Information:

Prepared by:

LEHDER Environmental Services Limited (519) 336-4101
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Revision Date:

November 17, 2008

Revision Summary:

August 30, 2005: Preparation Date
November 17, 2008: SDS template update.

Disclaimer:

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