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.

Section 1 Product and Company Identification

Product Name: VALVE ACTION PAINT MARKER

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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: Paint pen for general industrial marking.

Supplier/Importer:

AZTEC CHEMICALS LTD

Gateway Crewe Cheshire CW1 6YY

Tel: 01270 655500 Fax: 01270 655501

E-mail: <u>info@aztecchemicals.com</u> Web-site: www.aztecchemicals.com

Section 2 Composition/Information on Ingredients

Ingredient	CAS No.	%
Mineral Spirits	64742-88-7	30 - 50
VM&P Naphtha ^{4,6} ACGIH: TWA = 300 ppm (1370 mg/m ³)	8032-32-4	10 - 30
Xylene 1,3,4,5 ACGIH: TWA = 100 ppm, STEL = 150 ppm	1330-20-7	5 - 10

(For Section 2 footnotes: See Section 15)

Section 3 Hazards Identification

EMERGENCY OVERVIEW: WARNING: HARMFUL OR FATAL IF SWALLOWED.
FLAMMABLE. USE IN WELL-VENTILATED AREAS. CONTAINS XYLENE. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

POTENTIAL HEALTH EFFECTS

Primary Exposure Routes: Eyes, Skin, Ingestion, Inhalation

Acute Effects

Eyes: Liquid and vapors can irritate eyes.

Skin: May produce skin irritation. Prolonged or repeated contact may result in defatting and drying of

skin, which may result in dermatitis.

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Ingestion: Product is presumed to be slightly toxic. May cause central nervous system depression. Small amounts of liquid aspirated in to the lungs during ingestion or from vomiting may result in severe lung damage.

Inhalation: May produce irritation of the nose, throat, respiratory tract, and mucous membranes. High concentrations of vapor may produce central nervous system depression. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Chronic Effects
Eyes: None known

Skin: Prolonged or repeated contact may result in defatting and drying of skin, which may result in

dermatitis.

Ingestion: None known

Inhalation: Reports have associated repeated and prolonged occupational exposure to solvents with

permanent brain and nervous system damage.

Carcinogenicity: Not Applicable.

Target Organ Effects: Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage.

Medical Conditions Aggravated by Long-Term Exposure: Preexisting skin, eye and respiratory disorders may be aggravated by exposure to this product. Impaired central nervous system functions from preexisting disorders may be aggravated by exposure to this product.

Other Information: Keep liquid and vapor away from heat, sparks, and flame. Extinguish pilot lights, smoking materials, and turn off other possible sources if ignition prior to use and until vapors are gone. Surfaces that are sufficiently hot may ignite product in the absence of sparks or flame. Vapors may accumulate and travel to ignition sources distant from the handling site. Keep containers closed when not in use. Use with adequate ventilation. Containers, even when empty, can contain explosive vapors. Do not cut, drill, grind, or weld near containers. Containers can contain hazardous product residues even when empty.

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 immediate medical attention.

Skin Contact: Remove contaminated clothing. Wipe excess from skin. 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. DO NOT INDUCE VOMITING. If vomiting spontaneously occurs, keep the victim's head below the hips to prevent aspiration into the lungs. Since lung aspiration can cause very serious, permanent damage, the decision of whether to induce vomiting or not should be made by a physician. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Consult a physician, hospital or poison control center and/or transport to an emergency facility immediately.

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): 73°F/23°C (setaflash)
Autoignition Temperature: Not determined
LEL: Not Determined. UEL: Not Determined.

Flammability Classification: OSHA: Flammable Liquid - Class 1C. DOT: Flammable Liquid.

Extinguishing Media: Water fog, foam, dry chemical, carbon dioxide.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide and other unidentified toxic

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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). Containers exposed to intense heat should be cooled with water to prevent pressure buildup, which could result on container rupture. Container areas exposed to direst flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Section 6 Accidental Release Measures

Use recommended personal protective equipment (see Section 8).

Small Spill: Take up spill with absorbent material and place in non-leaking container. Seal container for proper disposal.

Large Spill: <u>CAUTION</u>! Flammable. Contain spilled product by diking. Eliminate all possible ignition sources. Provide adequate ventilation. Equip responders with appropriate personal protection equipment. Take up spill with absorbent material and place in non-leaking container. Seal container for proper disposal.

Section 7 Handling and Storage

Handling Precautions: Read all label cautions. Handle as a flammable liquid. Do not drop container. Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling. Keep liquid and vapor away from heat, sparks, and flame. Extinguish pilot lights, smoking materials, and turn off other possible sources if ignition prior to use and until vapors are gone. Surfaces that are sufficiently hot may ignite product in the absence of sparks or flame. Vapors may accumulate and travel to ignition sources distant from the handling site. Keep containers closed when not in use. Use with adequate ventilation. Containers, even when empty, can contain explosive vapors. Do not cut, drill, grind, or weld near containers. Containers can contain hazardous product residues even when empty.

Storage Requirements: Store away from ignition sources, in a cool, well ventilated area. Store away from incompatible chemicals (see Sec. 10).

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: Use impervious gloves. Use clean protective body-covering clothing as needed to minimize contact with clothing and skin.

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: Paint/Liquid

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Odor: Organic solvent

Odor Threshold (ppm): Not Determined.

Specific Gravity (H₂O = 1): Approximately 1.1 (9.16 lbs./gal.)

Solubility - Water: Insoluble - Fat: Soluble

Coefficient of Water/Oil Solubility: <1 Partition Coefficient (n-octanol/water): >1

pH: Not applicable

Melting Point: Not applicable

Boiling Point: 244°F/118°C for VM&P Naphtha Vapor Pressure (mm Hg at 20°C): 9.5 for Xylene

Vapor Density (Air = 1): Not determined Evaporation Rate (n-BuAc=1): 0.75 for Xylene

V.O.C. (U.S. Clean Air Act Section 111): 45 - 60%(w/w), 65 - 70%(v/v)

Flash Point (method): (see Section 5)
Autoignition Temperature: (see Section 5)
Flammability Classification: (see Section 5)

Unusual Fire or Explosion Hazards: (see Section 5)

Oxidizing Properties: Not Applicable.

Other Information: None.

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

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None known Chemicals to Avoid: Oxidizers.

Hazardous Decomposition Products (non-thermal): Not determined

Section 11 Toxicological Information

Sensitization to Product: Not Applicable.

Irritancy of Product: Can cause irritation to eyes, skin, mucous membranes, 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. 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

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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.): Consumer Commodity ORM-D (less than 30 kg gross package weight). Combustible liquid, n.o.s., Hazard class 3, UN No. 1993, Packaging group III (greater than 30 kg gross package weight).

TDG (Canada): Consumer Commodity ORM-D (less than 30 kg gross package weight). Combustible liquid, n.o.s., Hazard class 3, UN No. 1993, Packaging group III (greater than 30 kg gross package weight).

International Maritime Organization (IMO): Exempt (<0.51/marker)

International Air Transport Association (IATA): Flammable liquids, n.o.s., UN No. 1993

ADR: UN 1263; Class 3; Item 31°(c); Hazard Identification No: 30. CEFIC Tremcard is not applicable.

ICAO: Not determined.

Australian Code for the Transport of Dangerous Goods

Dangerous Goods Class and Subsidiary Risk: Not Determined.

Section 15 Regulatory Information

Footnotes for Section 2:

- 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, Fire 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 3, Flammability 1, Reactivity 1
NFPA® (704) Rating: Health 3, Flammability 2, Reactivity 1

CANADA

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

WHMIS Rating: D-1B, B-2

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): Flammable (F), Harmful (Xn)

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

Safety (S) Phrases: Not required per regulation 9(7) and 9(8) of CHIP.

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AUSTRALIA

Worksafe Australia Status: This product is classified as hazardous according to criteria of Worksafe

Australia.

HAZCHEM Code: Not determined.

Poisons Schedule Number: Not determined.

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.