

Material Safety Data Sheet

Section 1 Product and Company Identification

Product Name: <u>QUIK STIK</u>		
Revision #: 1.1	Date Prepared: September 1, 1999	Date Revised: June 15, 2001
Manufacturer: LA-CO INDUSTRIES, Inc. <i>Markal Co.</i> 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: Fast drying paint marker for all surfaces.	Supplier: LEVERMORE WORKSHOP WORLD 24 Endeavour Way Wimbledon London SW19 8UH Tel: 020 8946 9882 Fax: 020 8946 6259 E-mail: lww@levermore.co.uk Web-site: www.levermore.co.uk	

Section 2 Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
Dipropylene Glycol Monomethyl Ether ^{3,4,5,6} ACGIH: TWA = 100ppm, STEL = 150ppm OSHA: TWA = 100ppm Oral LD50 (rats): 5.4 ml/kg	34590-94-8	30 - 40

(For Section 2 footnotes: See Section 15)

Section 3 Hazards Identification

EMERGENCY OVERVIEW: WARNING: COMBUSTIBLE. KEEP OUT OF REACH OF CHILDREN.

POTENTIAL HEALTH EFFECTS

Primary Exposure Routes: Eyes, Skin, Inhalation

Acute Effects

Eyes: Direct contact can cause irritation.

Skin: Unlikely to cause irritation or injury. Can cause drying of skin.

Ingestion: Slightly toxic. Large amounts may produce signs of intoxication characterized by incoordination, dizziness, drowsiness, headache, nausea, mental confusion, possibly slurred speech, and stupor, depending on the quantity of material ingested.

Inhalation: Excessive inhalation of concentrated vapors can cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness. This is unlikely due to the low solvent content and amount of material in each marker.

Chronic Effects

Eyes: Not Determined.

Skin: Prolonged or repeated skin contact can remove skin oils possibly leading to irritation and dermatitis.

Ingestion: None Known.

Inhalation: None Known.

Carcinogenicity: Not applicable.

Target Organ Effects: None Known.

Medical Conditions Aggravated by Long-Term Exposure: Skin contact may aggravate existing

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dermatitis. Pre-existing respiratory conditions.

Other Information: None.

Section 4

First Aid

Eye Contact: Flush with large amounts of water for 5 to 10 minutes, lifting upper and lower eyelids occasionally.

Skin Contact: First-aid not normally required. However, it is recommended to wash exposed area with soap and water.

Ingestion: Seek medical attention. Do not induce vomiting.

Inhalation: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Keep victim warm, quiet and get medical attention.

Other Information: None.

Section 5

Fire Fighting Measures

Flash Point (method): 185°F (85°C) (open cup) for Dipropylene Glycol Monomethyl Ether

Autoignition Temperature: Not Determined.

LEL: 1.1% **UEL:** 14.0% for Dipropylene Glycol Monomethyl Ether

Flammability Classification: Not Determined.

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical. Water may be ineffective, but water should be used to keep fire-exposed containers cool. Water spray may be used to disperse vapors and to flush spills away from exposure.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, aldehydes.

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, shovel 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.

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Section 8 Exposure Controls/Personal Protection

Eye/Face Protection: Safety glasses recommended.

Skin/Hand Protection: Impervious gloves recommended.

Respiratory Protection: Not applicable.

Other Equipment: Eye wash recommended in industrial areas.

Engineering Controls: Normal room ventilation.

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: : Cylindrical crayon/solid.

Odor: Solvent-like.

Odor Threshold (ppm): Not Determined.

Specific Gravity (H₂O = 1): 1

Solubility - Water: Minimally soluble

- Fat: Soluble

Coefficient of Water/Oil Solubility: <<1

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

pH: Not applicable.

Melting Point: Approximately 194°F/90°C

Boiling Point: Not Determined.

Vapor Pressure (mm Hg at 20°C): <0.1

Vapor Density (Air = 1): 5.1

Evaporation Rate (n-BuAc=1): <1

V.O.C.: 30 - 40%(w/w), 32 - 42%(v/v), 2.4 - 3.2 lbs./gal.(U.S.), 0.3 - 0.4 kg/l

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.

Section 10 Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None Known.

Chemicals to Avoid: Strong oxidizers.

Hazardous Decomposition Products (non-thermal): Not Determined.

Section 11 Toxicological Information

Sensitization to Product: Not Applicable.

Irritancy of Product: Possibly minor irritation of eyes.

Reproductive Toxicity: Not Applicable.

Teratogenicity: Not Applicable.

Mutagenicity: Not Applicable.

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

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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 applicable federal, state, and local regulations.		
Section 14 Transport Information		
U.S. D.O.T. Proper Shipping Name: Not Regulated. Hazard Class or Division: Not Regulated. I.D. Number: Not Regulated. CANADIAN TDG: 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 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>U.S.A.</u>		
OSHA Hazard Status: This product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200). EPA SARA section 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 Rating: Health 1, Flammability 1, Reactivity 0		

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CANADA

WHMIS Status: This product is not considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.

WHMIS Rating: None.

WHMIS Risk Phrases: None.

WHMIS Precautionary Statements: None.

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): Not regulated per regulation 9 (7) of CHIP.

Risk (R) Phrases: None.

Safety (S) Phrases: None.

AUSTRALIA

Worksafe Australia Status: Not Determined.

HAZCHEM Code (Australia): Not Determined.

Poisons Schedule Number (Australia): 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

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.