

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: MS-6160

PRODUCT NAME: LIQUID LEAF COPPER

PLAID ENTERPRISES, INC.

3225 WESTECH DRIVE

NORCROSS, GA 30092

PHONE: 678-291-8100 CHEMTREC 24 HOUR PHONE: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT/EXPOSURE LIMITS	CAS#	% BY WT.
* COPPER POWDER OSHA PEL: 1 MG/M3 (as dust), ACGIH TLV: 1 MG/M3 (as dust)	7440-50-8	32.0
* XYLENE, XYLOL OSHA PEL: 100 PPM, ACGIH TLV: 100 PPM	1330-20-7	30.0
* ETHYLBENZENE OSHA PEL: 100 PPM, ACGIH TLV: 100 PPM	100-41-4	8.73

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: Can cause severe irritation, redness, tearing, and blurred vision.

SKIN: Prolonged or repeated contact can cause, defatting, irritation, and dermatitis.

INGESTION: Swallowing can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

INHALATION: Headache, nausea or impairment of reaction time and coordination.

CHRONIC (CANCER) INFORMATION: February 2000 the International Agency for Research on Cancer (IARC) classified ethylbenzene as possibly carcinogenic to humans (Group 2B) on the bases of sufficient evidence for carcinogenicity in experimental animals but inadequate evidence for cancer in humans.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Product does not contain chemicals at levels known to cause birth defects.

REPRODUCTION INFORMATION: No Data.

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4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing. If irritation persists call a physician.

SKIN: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

INGESTION: If swallowed rinse mouth immediately. DO NOT induce vomiting. Get prompt medical attention.

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

NOTE TO PHYSICIANS: Please contact your local poison control center for information regarding this product.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 79 deg F METHOD: T.C.C.

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: 1

UPPER FLAMMABLE LIMIT: 7

AUTOIGNITION TEMPERATURE: Not Determined.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may form carbon dioxide, carbon monoxide, and various hydrocarbons.

EXTINGUISHING MEDIA: Foam, CO₂, Dry chemical.

FIREFIGHTING INSTRUCTIONS: Use water spray to cool containers not actively involved in fire. Self-contained breathing apparatus recommended for fire fighters.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Remove all sources of ignition and ventilate vapors. Absorb with an inert material.

LARGE SPILL: Shut off and eliminate all ignition sources. Cover with inert materials to

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reduce fumes. Transfer material to separate suitable containers for recovery or disposal. Keep spills and cleaning material out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: When transferring or handling this product, use proper bonding and grounding procedures. Avoid employee exposure through the use of appropriate engineering controls, adequate personal protective equipment, and good industrial hygiene practices. Wash thoroughly after handling. Handle in well-ventilated workspace.

STORAGE: Keep material from heat, sparks, and open flames. Close container after each use. Use only in properly ventilated areas. Avoid excessive heat and cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGIH's TLV limit. Additional engineering controls should be used as necessary.

RESPIRATORY PROTECTION: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious clothing should be worn when gross contact is likely, such as when cleaning up large spills. Neoprene gloves may provide protection against permeation.

EYE PROTECTION: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 275 deg F

MELTING POINT: Not determined.

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: HEAVIER THAN AIR

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 1.26

PH: Not Applicable.

ODOR: Odor of organic solvent.

APPEARANCE: Viscous liquid.

COATING VOC: 4.41 lb/gl

MATERIAL VOC: 4.41 lb/gl

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): This material is considered stable.

INCOMPATIBILITY: Strong oxidizing or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide, carbon monoxide, and various hydrocarbons.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No applicable data.

CHEMICAL FATE INFORMATION: No applicable data.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Local, State and Federal waste disposal regulations.

14. TRANSPORT INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE

US DOT Hazard Class.....Flammable

15. REGULATORY INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED

U.S. FEDERAL REGULATIONS: The components of this product are included on the TSCA inventory.

OSHA: Hazardous by definition of Hazardous Communication Standard (29 CFR 1910.1200).

CERCLA: SARA HAZARD CATEGORY: Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

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SECTION 313: * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: Not Determined.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All components of this product are on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

EINECS: All the components of this product are on the European Inventory of Existing Commercial Chemical Substances.

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS: The Volatile Organic Compounds (VOCs) are below the emission limits as regulated by The Environmental Protection Agency (EPA) and state regulations.

16. OTHER INFORMATION

NAME OF PREPARER: Dewey Wright

REVISION DATE: 01-14-03

HMIS CODES: H F R P
1 2 1 G

HMIS HAZARD RATINGS: H=HEALTH, F=FIRE, R=REACTIVITY, P=PERSONAL

SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

PERSONAL PROTECTION: See Section 8, Exposure Controls/Personal Protection for recommended handling of material as supplied; check with supervisor for your actual use condition.

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

LIST OF ACRONYMS:

ACGIH: American Conference of Government Industrial Hygienists

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

PPM: Parts Per Million

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SARA: Superfund Amendment Reauthorization Act

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Please note that this MSDS applies to industrial handling of this material. Consumers should read product label. The information and recommendations set forth herein are believed to be accurate. The data is derived from information provided to Plaid Enterprises, Inc. from its raw material suppliers. Plaid Enterprises, Inc. makes no guarantee or warranty, expressed or implied, regarding the accuracy, reliability, or completeness of the data or the results to be obtained from the use thereof. It is the responsibility of the user of the product to comply with all applicable federal, state, and local laws and regulations.

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