

**MATERIAL SAFETY DATA SHEET**

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**===== SECTION I - CHEMICAL PRODUCT AND MANUFACTURER IDENTIFICATION**

**PRODUCT NAME: 514 MACROPLAST ADHESIVE**

MANUFACTURER'S NAME: Maple Leaf Sales II, Inc.  
ADDRESS: 985 Grand Rapids St.  
Middleville, MI 49333

EMERGENCY PHONE: 800-424-9300 (CHEMTREC)  
INFORMATION PHONE: 800-521-1133

DATE REVISED: 11/08/10

**===== SECTION II - HAZARD IDENTIFICATION**

**DANGER!** Flammable liquid. Irritant by inhalation, ingestion, skin contact, eye contact.

**ROUTES OF ENTRY**

Inhalation, skin absorption, ingestion.

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Breathing high concentrations of vapors may cause irritation of the nose and throat or signs of nervous system depression (i.e. – headache, nausea, drowsiness, dizziness, vomiting, loss of concentration and fatigue).

**EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

May cause mild eye irritation. Direct contact with liquid or vapors may cause stinging, tearing, redness, swelling, and eye damage.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

This material may cause mild skin irritation. Prolonged or repeated contact or exposure to vapors may cause redness, burning, and drying and cracking of the skin.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion may cause irritation of the digestive tract, nausea, vomiting, and signs of nervous system depression.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Pre-existing eye, skin, or respiratory disorders may be aggravated by exposure to this product.

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### ===== SECTION III - COMPOSITION / INFORMATION ON INGREDIENTS

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESS.	WT. %
Acetone	67-64-1	182.0	22 – 40 %
OSHA PEL: 1000 ppm			
ACGIH TLV: 500 ppm TWA			
Heptane	142-82-5	36.4	22 – 40 %
OSHA PEL: 500 ppm			
ACGIH TLV: 400 ppm TWA			

No SARA Title III, Section 313 reportable components.

### ===== SECTION IV - FIRST AID MEASURES

#### EMERGENCY AND FIRST AID PROCEDURES:

**SKIN:** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and wash affected areas thoroughly with mild soap. If irritation develops, seek medical attention.

**EYES:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

**INGESTION:** Get medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration.

### ===== SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (°F): -4

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR (% BY VOL): LOWER: 1.90 UPPER: 12.80

EXTINGUISHING MEDIA: Carbon dioxide, Dry chemicals, Foam.

#### SPECIAL FIREFIGHTING PROCEDURES

May produce toxic fumes if burning. The use of self-contained breathing apparatus is recommended for fire fighters. Water may be unsuitable as an extinguishing medium, but helpful in keeping adjacent containers cool; avoid spreading the liquid with water used for cooling.

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### ===== SECTION VI - ACCIDENTAL RELEASE MEASURES

Keep sources of ignition isolated from spill. Stop spill/release if it can be done without risk. Wear appropriate protective equipment including respiratory protection as conditions warrant and stay upwind. Prevent material from entering sewers, storm drains, or other natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Immediate clean-up of any spill is recommended. Notify fire authorities and appropriate federal, state, and local agencies.

### ===== SECTION VII - HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid extremes of heat or cold. Keep product containers closed when not in use. Use and store material in well-ventilated areas away from open flames, heat, hot metal surfaces, and other potential sources of ignition. Bond and ground equipment when transferring from one vessel to another. Store only in approved containers. Personal contact and inhalation should be avoided. Wash hands after use. Do not eat, drink, or smoke in work area.

### ===== SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

See Section III for exposure limits of hazardous ingredients.

#### RESPIRATORY PROTECTION:

Use approved NIOSH respiratory protection if TLV is exceeded or if overexposure is likely.

#### VENTILATION:

Mechanical ventilation.

#### EYE PROTECTION:

Wear safety glasses or goggles to protect against exposure.

#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

May use impermeable apron as needed, eye washes, and safety showers.

### ===== SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber-colored liquid.

pH: Not available.

MELT/FREEZE POINT: No data.

FLASH POINT (°F): -4

FLAMMABILITY (SOLIDS): N/A

VAPOR DENSITY: Heavier than air.

VAPOR PRESSURE: Refer to Section III for vapor pressure value.

ODOR: Solvent odor.

ODOR THRESHOLD: Not available.

BOILING POINT (°F): 133

EVAPORATION RATE: Faster than nBuAc.

LOWER FLAM. LIMIT: 1.90

UPPER FLAM. LIMIT: 12.80

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SPECIFIC GRAVITY: .8003

WEIGHT PER GAL.: 6.6635 lb/gl

SOLUBILITY IN WATER: Insoluble.

PARTITION COEFFICIENT (n-octanol/water): No data.

AUTO-IGNITION TEMP. (°F): No data.

DECOMPOSITION TEMP. (°F): No data.

VOLATILE (WT. %): 62.1583%

VOC CONTENT: 248 g/l

(STANDARD CALCULATION METHOD)

VOC CONTENT LESS WATER & EXEMPT COMPOUNDS: 363 g/l

**===== SECTION X - STABILITY AND REACTIVITY**

STABILITY:

Stable.

CONDITIONS TO AVOID:

Avoid extremes of heat or cold.

INCOMPATIBILITY (MATERIALS TO AVOID):

Incompatible with alkali metals, halogens, and strong acids or bases.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Carbon monoxide, carbon dioxide, smoke, and other unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION:

Will not occur.

**===== SECTION XI - TOXICOLOGICAL INFORMATION**

See Section II for additional information regarding health risks.

CARCINOGENICITY: NTP CARCINOGEN: No.

IARC MONOGRAPHS: No.

OSHA REGULATED: No.

REPRODUCTIVE TOXICITY: No data.

MUTAGENICITY: No data.

STOT-single: No data.

STOT-repeated exposure: No data.

ASPIRATION HAZARD: No data.

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METHYLENE CHLORIDE: Methylene chloride is not present in this product.

**===== SECTION XII - ECOLOGICAL INFORMATION**

AQUATIC TOXICITY: ACUTE AND PROLONGED TOXICITY TO FISH: No data.

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: No data.

ENVIRONMENTAL FATE AND PATHWAYS: No data.

**===== SECTION XIII - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all applicable local, state, and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**===== SECTION XIV - TRANSPORTATION INFORMATION**

NOTE: The assignment of Proper Shipping Name is in part a function of the size of the product container and the transport mode. For example, the Proper Shipping Name for a bulk container can differ significantly from the Proper Shipping Name for the same product packaged in a non-bulk container.

This can also be true for products shipped via different modes of transportation (i.e. ground, air, ocean). The descriptions may not apply to your package size or mode of shipment.

The U.S. Code of Federal Regulations, 49 CFR – Transportation, regulations, and the policies established by some transporters, require that the shipper properly classify and assign a Proper Shipping Name, and label, mark and package the material properly. Therefore, the user of this information is cautioned to consult with applicable regulations, and with qualified advisors prior to the repackaging and/or reshipment of this or any other product which contains this product.

SMALL QUANTITY (1 gallon or less):

ORM-D; CONSUMER COMMODITY

DOT (ROAD, RAIL, WATER):

PROPER SHIPPING NAME: ADHESIVES; UN1133; PG II; CLASS 3

IMDG (ROAD, RAIL, WATER):

PROPER SHIPPING NAME: ADHESIVES; UN1133; PG II; CLASS 3

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**===== SECTION XV - REGULATORY INFORMATION**

NFPA CODES: H F R P

1 3 0 B

CALIFORNIA PROPOSITION 65

WARNING! This product contains the following substance (s) known to the state of California to cause birth defects or other reproductive harm: None.

**===== SECTION XVI - OTHER INFORMATION**

The information contained herein is based on the data available to us and is believed to be correct. However, Maple Leaf Sales II, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the thereof. Maple Leaf Sales II, Inc. assumes no responsibility for injury from the use of the product described herein.