

HP Cartridge Cleaner

SECTION 1: IDENTIFICATION

Product Identifier: HP Cartridge Cleaner
 Other Means of Identification: Part Number 509-0, Ethyl Lactate
 Recommended Use: Ink-Jet Printer Cleaning Solvent
 Restrictions on Use: None known
 Supplier Identifier: Sterling Marking Products Inc., 1147 Gainsborough Road, London, ON
 Canada N6H 5L5 1-800-265-5957, 519-434-5785
 Emergency Phone Number: CANUTEC (613) 966-6666, Cellular *666

SECTION 2: HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the U.S. Hazardous Communication Standard (HCS 2012)

Classification

Flammable Liquid – Category 3
 Specific Target Organ Toxicity, Single Exposure – Category 3
 Eye damage – Category 1

Label Elements:



Signal Word: Warning

Hazard Statements:

Flammable liquid and vapour
 May cause respiratory irritation
 Causes serious eye damage

Precautionary Statements:

Use only out of doors or in a well-ventilated area
 Keep container tightly closed
 Keep away from heat, hot surfaces, sparks, open flames or other ignition sources. No smoking.
 Avoid breathing vapours
 Wear protective gloves and eye protection
 Wash hands and skin thoroughly after handling
 If in eyes, flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur consult a physician, preferably an ophthalmologist.
 If ingested, there is no specific antidote. Do not induce vomiting. Seek prompt medical attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percentage (%)	Other Identifiers
Ethyl Lactate	97-64-3	90 – 100%	Not Applicable

Note: All ingredients are listed on the Domestic Substances List (DSL) and the Toxic Substances Control Act (TSCA) list.

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur consult a physician, preferably an ophthalmologist.

Skin Contact: Immediately flush affected area with water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation occurs. Remove contaminated clothing and laundry before reuse. Discard contaminated leather articles such as shoes and belt.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do **NOT** induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to Physician: No specific antidote. Treatment based on sound judgement of physician and individual reactions of patient. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:

Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function but much less effectively.

Unsuitable Extinguishing Media:

Do not use direct water stream, which will spread fire.

Specific Hazards arising from the Product:

Isolate and restrict area access. Stay upwind. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Vapours are heavier than air and may accumulate in low areas. Vapours may travel along the ground to be ignited at distant locations. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

Hazardous Decomposition/Combustion Materials (under fire conditions):

The smoke may contain unidentified toxic and/or irritating compounds. Carbon monoxide. Carbon dioxide.

Special Protective Equipment:

Fire fighters should wear full protective clothing including self-contained breathing equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures:

Wear appropriate protective equipment.

Environmental Precautionary Measures:

Prevent entry into sewers or streams, dike if needed.

Procedure for Clean-up:

Eliminate all ignition sources. Small spills can be flushed with large amounts of water; larger spills should be collected for disposal. Absorb with an inert dry material and place in an appropriate waste disposal container. Collect liquid with explosion-proof pumps.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Flammable. Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapour. Keep the containers closed when not in use. Use with adequate ventilation. Never use air pressure for transferring product. No smoking or open flame in storage, use or handling areas. Ensure proper electrical grounding procedures are in place. Use non-sparking tools. Containers, even those that have been emptied, will retain product residue and vapour and should be handled as if they were full until they have been cleaned. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion. This product is a poor conductor of electricity and can become electrostatically charged during handling and use (for example: during mixing, filtering or pumping). If this charge reaches a sufficiently high level, static discharges or sparks capable of causing ignition might occur.

Conditions for Safe Storage:

Store in a cool, dry, well-ventilated area, away from heat and ignition sources. Use explosion-proof ventilation to prevent vapour accumulation. Keep containers tightly closed. Store in the following material(s): Carbon Steel. Stainless Steel. Phenolic-lined steel drums. Do not store in aluminum, copper, copper alloys and galvanized containers. Storage Period: Bulk – 6 months, Plastic drums – 24 months. Store in accordance with good industrial practice.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Control Parameters

Chemical Name	Exposure Limit - ACGIH		Exposure Limit - OSHA		Immediately Dangerous to Life or Health - IDLH
	TWA	STEL	TWA	STEL	
Ethyl Lactate, 97-64-3	Not known	Not known	Not know	Not known	Main hazard is as an irritant

Appropriate Engineering Controls:

Local exhaust ventilation as necessary to maintain exposure to within acceptable limits.

Personal Protective Equipment

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. For concentrations exceeding the recommended exposure limit, use NIOSH-approved air purifying respirator.

Gloves: Use gloves chemically resistant to this material, examples of preferred glove barrier materials include: Butyl rubber gloves. Ethyl Vinyl Alcohol Laminate (EVAL). Examples of acceptable glove barrier materials include Natural rubber gloves. Neoprene gloves. Nitrile gloves. Polyvinylchloride (PVC) gloves. Viton gloves. **NOTICE:** the selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials as well as the instructions/specifications provided by the glove supplier.

Skin Protection: The selection of personal protective equipment varies depending upon conditions of use. Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance. Impervious clothing. Impervious boots.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work station location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.
Colour: Clear, colourless.
Odor: Slight Ether.
pH: Not available.
Specific Gravity: 0.9 @ 25°C.
Boiling Point: 110°C
Freezing/Melting Point: Not Available.
Vapour Pressure: Not Available.
Vapour Density: Not Available.
% Volatile by Volume: Not Available.
Evaporation Rate: Not Available.
Solubility: Slightly soluble in water

SECTION 10: STABILITY AND REACTIVITY

Reactivity:
Not reactive.
Chemical Stability:
Stable.
Hazardous Polymerization:
Will not occur.
Conditions to Avoid:
Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid contact with heat, sparks, open flame and static discharge.
Materials to Avoid:
Oxidizing materials. Strong acids or bases.
Hazardous Decomposition Products:
Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide.
Additional Information:
No additional remarks.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:
Ingestion:
Low toxicity. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.
Skin Contact: Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness. Prolonged skin contact with very large amounts may cause dizziness or drowsiness. Repeated skin exposure to large quantities may result in absorption of harmful amounts.

Inhalation: Brief exposure (minutes) is not likely to cause adverse effects. The odor is objectionable at 100 ppm; higher levels produce eye, nose and throat irritation and are intolerable at 1000 ppm. Anesthetic effects are seen at or above 1000 ppm.

Eye Contact: Causes eye damage.

Additional Information: Repeated overexposure may cause liver and kidney effect. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

Acute Test of Product:

Acute Oral Rat LD50: >8,200 mg/kg

Acute Dermal Rabbit LD50: > 5,000 mg/kg

Acute Inhalation Rat LC50: Not Available.

Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Ethyl Lactate	Not Listed	Not Listed

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity//Teratogenicity/Embryotoxicity/Mutagenicity: In laboratory animal studies, effect on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity – Fish Species Data	Acute Crustaceans Toxicity	Ecotoxicity – Freshwater Algae Data
Ethyl Lactate	4Daphnia, EC50/48h: 560 mg/l	Not Available	Not Available

Other Information:

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14: TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: Printing Ink Related Material, Ethyl Lactate

DOT Hazardous Class: 3

DOT UN Number: UN1210

DOT Packing Group: III

DOT Reportable Quantity (lbs): Not available.

Note: No additional remarks.

Marine Pollutant: No.

TDG (Canada):
TDG Shipping Name: Printing Ink Related Material, Ethyl Lactate
Hazard Class: 3
UN Number: UN1210
Packing Group: III
Note: No additional Remarks
Marine Pollutant: No.

SECTION 15: REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules:

Ingredients	CERCLA/SARA – Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA – Section 313:
Ethyl Lactate	Not Listed	Not Listed	Not Listed

California Proposition 65: Not Listed.

MA Right to Know List: Listed.

New Jersey Right-to-Know List: Listed.

Pennsylvania Right-to-Know List: Listed.

WHMIS Hazardous Class:

Flammable Liquid – Category 3

Specific Target Organ Toxicity, Single Exposure – Category 3

Eye damage – Category 1



SECTION 16: OTHER INFORMATION

Additional Information: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

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End of SDS.