


Horizons Incorporated

Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

1. Product and Company Identification	
Product Name	ID-Mark Plate Cleaner
Manufacturer's name	Horizons Incorporated
Address	18531 South Miles Road Cleveland, Ohio 44128
Emergency Telephone Number	(216) 475-0555
Information Telephone Number	(216) 475-0555

2. Hazards Identification	
GHS Classification	
H226 H302 H332 H312 H315 H320 H317	Flammable liquid – Category 3 Acute toxicity, Oral – Category 4 Acute toxicity, Inhalation – Category 4 Acute toxicity, Dermal – Category 4 Skin corrosion/irritation – Category 2 Serious eye damage/eye irritation – Category 2B Skin sensitization – Category 1B
GHS Label Elements	
Hazard Pictogram	
Signal Word	Danger
Hazard Statements	
H226 H302+H332 H312 H315 H320 H317	Flammable liquid and vapor Harmful if swallowed or inhaled Harmful in contact with skin Causes skin irritation Causes eye irritation May cause an allergic skin reaction
Precautionary Statements	
P210 P233 P280 P264 P270 P261 P271 P272 P303+P361+P353 P305+P351+P338 P333+P337+P313 P301+P330 P304+P340 P362+P364 P312 P403+P235	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking Keep container tightly closed Wear protective gloves/clothing and eye protection Wash thoroughly after handling Do not eat, drink, or smoke when using this product Avoid breathing fume, mists, & vapors Use only in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If skin rash or eye irritation occurs or persists, get medical advice/attention IF SWALLOWED: Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing Take off contaminated clothing and wash before reuse Call a poison center/doctor if you feel unwell Store in a well-ventilated place. Keep cool

3. Composition/Information on Ingredients

Components/ Materials	CAS Number	%
Ethyl Lactate	97-64-3	100

4. First Aid Measures

Inhalation	Promptly remove to fresh air. If breathing is stopped or irregular, administer artificial respiration. Get medical attention immediately.
Skin Contact	Wash affected area with soap & water after contact. Rinse immediately with plenty of water for at least 15 minutes. Remove & wash contaminated clothing before reuse. If irritation develops, get medical attention.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Keep eyes wide open while rinsing. Get medical attention if irritation develops & persists.
Ingestion	Rinse mouth with water. DO NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammable Properties	Flash point – >115°F (46°C) TCC
Flammable Limits	
Lower Flammable Limit	1.5 Vol%
Upper Flammable Limit	11.4 Vol%
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide.
Unusual Fire/Explosion Hazards	Combustion products may be irritating to the skin, eyes, nose, and respiratory system. Vapor may travel back to ignition source and flashback. Product may be sensitive to static discharge, which could result in fire or explosion.
Extinguishing Media	Foam. Carbon Dioxide (CO ₂). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special Firefighting Procedures	Wear self-contained breathing apparatus & protective clothing to prevent contact with skin and eyes. Cool containers with water spray. Fire or intense heat may cause violent rupture of packages.

6. Accidental Release Measures

Small Spill	Absorb spill with an inert material and place in a chemical waste container
Large Spill	Remove all sources of ignition. Ventilate area. Contain spilled liquid with sand or earth. Absorb spill with an inert material and shovel into a chemical waste container. Prevent runoff from entering into sewers and ditches which lead into natural waterways. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

7. Handling and Storage

Handling	Avoid contact with eyes and clothing. Keep container closed. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of mists and vapors. Avoid prolonged or repeated contact with skin. Take measures to prevent build-up of electrostatic charge.
Storage	Store between 65-85°F. Keep containers sealed when not in use.

8. Exposure Control/Personal Protection

Exposure Limits				
Chemical Name	CAS No.	OSHA	ACGIH	NIOSH
Ethyl Lactate	97-64-3	ND	ND	ND
ND – Not Determined				
Engineering Controls	Control airborne concentrations below the exposure limits. Use only with adequate ventilation. Local exhaust ventilation may be necessary. Keep containers covered whenever possible. Where explosive mixtures may be present, equipment safe for such locations should be used.			
Respiratory Protection	When respiratory protection is required, use a NIOSH approved air-purifying respirator equipped with an organic vapor canister. For emergency and other conditions where exposure limits may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply.			
Skin Protection	Wear protective gloves and clothing. Use of natural rubber (latex) gloves is NOT recommended. Use solvent-resistant apron & boots, if needed.			
Eye Protection	Use safety glasses with side shields or, preferably, chemical goggles. Contact lens use is not recommended.			

9. Physical and Chemical Properties

Boiling Point	309°F (154°C)
Specific Gravity	1.04
% Volatiles	100%
Solubility in Water	Miscible with water
pH	No information available
Odor	Mild, characteristic odor
Form	Liquid
Color	Colorless
VOC	8.60 lbs/gal coating (1,030g/L)

10. Stability and Reactivity

Chemical Stability	Stable under normal storage conditions
Conditions to Avoid	Keep product away from heat, sparks, static electricity, and open flame.
Incompatibility	Strong bases. Strong oxidizing agents.
Hazardous Decomposition Products	Burning can produce carbon monoxide, and carbon dioxide when heated to decomposition.
Hazardous Polymerization	Will not occur

11. Toxicological Information

Results of component toxicity test performed:	
Data for Ethyl Lactate (CAS 97-64-3)	Acute Toxicity Data: Oral rat LD50: 8200 mg/kg; Dermal rabbit LD50: >5000 mg/kg; Inhalation, rat LC50:>5400 mg/L 4h

12. Ecological Information

The following properties are ESTIMATED from the components of the preparations.	
Potential Toxicity:	
Toxicity to Danio rerio (LC50):	320 mg/L /96 Hr
Toxicity to Daphnia magna (EC50):	320 mg/L /48 Hr
Toxicity to S. Capricornutum (EC50):	2200 mg/L 70 Hr
Persistence and degradability	43.2% (BOD/COD)
Chemical Oxygen Demand (COD)	1.62 lb O ₂ /lb
Biochemical Oxygen Demand (BOD)	0.7 lb O ₂ /lb
Chemical Fate Information	ND

13. Disposal Considerations

Liquid material should be disposed as flammable waste. Note that Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.
Contact a licensed professional waste disposal service to dispose of large quantities of this material

14. Transport Information

Proper Shipping Name	Ethyl Lactate
UN No.	UN1192
IATA Class	Class 3
Packing Group	III
In the U.S. & Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].	

15. Regulatory Information

U.S. Federal Regulations	
TSCA Section 8 (b) Inventory	All components are listed on the TSCA Chemical Inventory
OSHA	Hazardous by definition of Hazard Communications Standard (29CFR1910.1200)
SARA Hazard Category	
SARA 302 Components	No listed components
SARA 313 Components	No listed components
SARA 311/312 Hazards	Acute Health Hazard, Fire Hazard
State Regulations	
Massachusetts Right To Know Components	Ethyl Lactate
Pennsylvania Right To Know Components	Ethyl Lactate
New Jersey Right To Know Components	Ethyl Lactate
California Proposition 65 Components	This product does not contain any chemical known to the State of California to cause cancer or reproductive harm.

16. Other Information

HMIS	
H – 2	
F – 2	
R – 0	
PPE – B	
The information in this material safety data sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations & management, and for persons working with or handling this product. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions but does not purport to be all inclusive. Horizons Incorporated shall not be held liable for any damage resulting from handling or from contact with the above product.	