

# SS-210 SOLVENT

## MATERIAL SAFETY DATA SHEET

### SECTION 1 MATERIAL IDENTIFICATION

Product Name: SS-210  
Revision Date: 3/02/04  
Chemical Name: Ethyl Hydroxy Propionate  
DOT Classification: Combustible Liquid N.O.S. UN NA 1192

Lyn Distributing  
800-366-5022  
965 North Redwood Road  
North Salt Lake, UT. 84054  
[www.lyndist.com/degreasers.html](http://www.lyndist.com/degreasers.html)  
Emergency Phone #: 800-366-5022

Formula:  $\text{CH}_3\text{-CH(OH)-COO-CH}_2\text{CH}_3$

### SECTION 2 HAZARDOUS INGREDIENTS

<u>Chemical/Common Name</u>	<u>Percent</u>	<u>CAS NO.</u>	<u>Applicable PEL-OSHA</u>	<u>Exposure Limits TLV-ACGIH</u>
Ethyl Hydroxy Propionate	>96%	97-64-3	none	none

### SECTION 3 HEALTH HAZARD DATA

#### Acute Health Effects:

Eyes: Risk of damage  
Skin Contact: Not an irritant  
Ingestion:  
Inhalation: Possible narcotic effects at excessive exposure

Chronic Health Effects: Oral Allowed as food additive by FDA and FAO/WHO; not listed as a carcinogen

Routes of Entry: Most common – skin and inhalation

Medical Conditions Aggravated by Exposure: Mist may cause eye/respiratory irritation with coughing

### SECTION 4 FIRST AID MEASURES

Eyes: Immediately flush with water for at least 15 minutes. See a medical doctor immediately.  
Skin: Rinse with water  
Inhalation: Remove to fresh air. If discomfort occurs and persists, obtain medical attention.  
Ingestion: Induce vomiting. See a doctor immediately.

### SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Water, water fog, carbon dioxide (CO<sub>2</sub>), dry chemical  
Special Procedures: Wear NIOSH approved respirator  
Degree of Fire and Explosion Hazard: Moderate  
Hazardous Decom-Position Procedures: None. Decomposes to water and CO<sub>2</sub> when completely combusted.

### SECTION 6 ACCIDENTAL RELEASE/SPILL MEASURES

Procedure for Release or Spill: Cover with large quantity of absorbent material (e.g. kitty litter) and collect in drums for disposal. Clean contaminated area with water and discharge to sewer.

## SECTION 7 CHEMICAL AND PHYSICAL DATA

Melting Point:	not applicable	Specific Gravity (H <sub>2</sub> O=1):	1.030-1.038
Boiling Point:	309° F	Percent volatile by volume (%):	100
Vapor Pressure (mmHg):	1.7	Evaporation rate (butyl acetate=1):	0.22
Vapor Density (air=1):	4.07	pH of water dispersion:	
Flash Point (method used):	139° F	Appearance and Odor:	Clear colorless liquid; mild odor
ASTM D93, closed cup		Solubility:	(specific solvents) complete (in water)
Flammable limits @ 212° F:	Lel – 1.6% Uel – 10.6%	Odor Threshold:	0.89 mg/m <sup>3</sup> (0.18 ppm)
Extinguishing Media:	water, foam, CO <sub>2</sub>	Bulk Density (G/ML):	not applicable
Special Fire Fighting Proc:	not required	Partition coefficient:	n-octanol/water – not applicable
Incompatibility (materials to avoid):	none	Autoignition Temperature:	752° F
Hazardous decomposition Products:	none	Explosive Properties:	not applicable
		Oxidizing Properties:	not applicable

## SECTION 8 STABILITY AND REACTIVITY DATA

Stability:	stable
Hazardous Polymerization:	none known
Conditions to Avoid:	none known
Materials to Avoid:	strong oxidizing agents
Major Contaminants that Contribute to Instability:	none
Incompatibility:	none known
Hazardous Decomposition Products:	none
Sensitivity to Mech. Impact:	none
Sensitivity to Static Discharge:	none

## SECTION 9 TOXICOLOGICAL INFORMATION

Eye Contact:	severe irritant (rabbit)
Skin Contact:	LD 50 (rats/24 hrs.) >2000mg/kg
Skin Absorption:	no data available
Inhalation:	LD 50 (rat/4 hrs.) >5400 mg/m <sup>3</sup>
Ingestion:	LD 50 = 4090 MG/KG (rat) (RTECS 1985-86)
Acute Effects from Overexposure:	may cause severe irritation of the eyes
Chronic Effects from Overexposure:	none identified

(effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic, products, and any medical conditions generally recognized as being aggravated by exposure)

## SECTION 10 ECOLOGICAL INFORMATION

Environmental Data:	100% biodegradable
Environmental Effects:	No adverse effects known or suspected. Not listed toxic chemical under SARA Title 111.302, 304 or 313

## SECTION 11 HANDLING AND STORAGE

Handling:	Keep container tightly closed. Store in a cool, dry, well-ventilated, liquid storage area.
Ventilation:	Use adequate general or local exhaust ventilation to keep vapor and mist levels as low as possible.
Storage:	Store in a cool, dry area away from acids.

## SECTION 12 EXPOSURE CONTROL/PERSONAL PROTECTION

Recommended Personal Protective Equipment:

- Respiratory: None required where adequate ventilation conditions exist.
- Ventilation:
  - (Local Exhaust): recommended
  - (Mechanical – general): general dilution
- Eye Protection: Use chemical goggles
- Gloves: Use impervious gloves to prevent skin contact.
- Special Clothing and Equipment: Aprons recommended. If clothing becomes contaminated, remove and launder before reuse.
- Other Protective Equipment: none identified
- Foot Protection: industrial safety shoes
- Other Engineering Controls: none identified
- Work Practices: Do not smoke in areas of storage or use. Avoid all contact with skin and eyes.
- Control Measures: Minimize eye and skin contact by using appropriate protective equipment. Use local or general room ventilation to control vapors or mist that may be generated into the work environment.

## SECTION 13 SPECIAL PRECAUTIONS DATA

Precautions to be Taken in Handling and Storing – Avoid all contact with eyes or skin. Wear the appropriate protective equipment. Protect containers from physical damage.

Maintenance Personnel – Wash down vessels. Check the oxygen and combustible vapor content of the vessel atmosphere. Use the appropriate protective equipment.

## SECTION 14 DISPOSAL PROCEDURES

- Waste Disposal Method: Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water. Dispose in accordance with all applicable Federal, State and local environmental regulations.

## SECTION 15 TRANSPORT INFORMATION

- DOT Proper Shipping Name: Ethyl Hydroxy Propionate
- IATA: not applicable
- IMDG: Class 3.3
- DOT Classification: Combustible Liquid N.O.S.
- DOT Labels: Flammable Liquid, 3
- DOT Marking: not applicable
- DOT Placard: bulk: flammable liquid 1192. Drums: no placard required under 110 gal.
- UN Number: 1192
- Hazardous Substance/RQ: not applicable
- 49 STCC Number: not applicable
- Precautions To Be Taken in Transport: none needed
- Other Shipping Information: none

## SECTION 16 REGULATORY INFORMATION

OSHA Exposure Limits Substance(s): Ethyl Hydroxy Propionate  
OSHA PEL-TWA: not applicable  
STEL: not applicable  
Ceiling: not applicable  
Skin Designation: not applicable  
AGGIH TLV-TWA: not applicable  
STEL: not applicable  
Ceiling: not applicable  
Skin Designation: not applicable  
Target Organ Effects: Eye  
Carcinogenic Potential: none  
Regulated by OSHA: no  
Listed on NTP Report: no  
IARC Group 1, 2A, 2D: no

US EPA Requirements Release Reporting CERCLA:  
(40 CFR 302):  
Listed Substances: not listed  
RQ: not applicable  
Category: not applicable  
RCRA Waste No.: not applicable  
Unlisted Substances: not applicable  
RQ: not applicable  
Characteristic: not applicable  
RCRA Waste No.: not applicable

SARA Title III Sec 313 (40 CFR 372):  
Listed Toxic Chemical: not listed

Inventory Reporting SARA Title III Sec 311/312:  
(40 CFR 370):  
Substance(s): Ethyl Lactate  
Hazard Category:  
Planning threshold:  
Emergency Planning:

SARA Title III Sec 302-303 (40 CFR 355):  
Listed Substances: not applicable  
RQ: not applicable  
Planning Threshold: not applicable  
US TSCA Status: listed

Canada Ingredient Disclosure List Substance(s): Ethyl Lactate  
Controlled Product:  
Hazard Symbols:  
Class and Division:  
Product Identification No.:  
Domestic Substance List:  
CEPA Priority List:  
Carcinogenicity: not listed in other OSHA, ACGIH, NTP, or IARC  
ACGIH Appendix A: not listed  
A1 – Confirmed Human: not listed  
A! – Suspected Human: not listed  
IARC Group 1 or 2: no

Label Language (US/Canada) Health: not applicable  
Physical Handling and Storage: Keep container tightly closed. Store in a cool, dry, well-ventilated liquid storage area.  
First Aid: In case of contact, immediately flush eyes with water for at least 15 minutes. If irritation persists, obtain medical attention. Flush skin with water.

State Regulations:

**SECTION 17 ADDITIONAL INFORMATION**

OSHA permissible exposure limit or ACGIH threshold limit value has not been established.

**SECTION 18 HMIS LABEL**

HEALTH: 1  
FLAMMABILITY: 2  
REACTIVITY: 0  
PERSONAL PROTECTION: B

**DEPARTMENT OF TRANSPORTATION**

Hazardous Materials Regulations, 49 CFR

Proper Shipping Name: Ethyl Hydroxy Propionate  
Hazard Class: 3.3  
Packaging Group: III  
Reportable Quantity: None  
Label Required (drums): None  
Placard Required (Bulk): Placard flammable liquid 1192  
Maximum Quantity – Aircraft: No limit  
Stowage on vessels: Above or Below Deck

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