

# 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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