



## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

|              |                                                       |
|--------------|-------------------------------------------------------|
| Product name | Ethanol 200 Proof w/ Bergamot Oil                     |
| CAS number   | See Section 3 for more information.                   |
| Synonyms     | Specially Denatured Ethyl Alcohol With Eucalyptus Oil |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory Chemicals |
|-----------------|----------------------|

#### 1.3 Details of the supplier of the safety data sheet

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918                                                               |
| Fax       | 512-886-4008                                                               |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                   |             |
|-------------------|-------------|
| Flammable Liquids | Category 2  |
| Eye Irritation    | Category 2A |

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Highly flammable liquid and vapor.  
Causes serious eye irritation.

Precautionary statements

Prevention: Keep away from heat, open flame, sparks. No smoking. Keep container tightly closed.  
Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Use only non-sparking tools. Wash hands, forearms, and exposed areas thoroughly after handling. Wear eye protection, protective gloves, protective clothing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

Fire: In case of fire, use dry sand, dry chemical or alcohol-resistant foam for extinction

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|---------------|--------------------------|------------|---------------|
| Ethanol       | Ethyl alcohol; EtOH      | 64-17-5    | $\geq 95\%$   |
| Bergamot Oil  | -                        | 89957-91-5 | 1-5%          |

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## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

|                                |                                                                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>              | If symptoms are experienced, remove source of contamination or move to fresh air. If breathing is difficult, get medical attention                                                       |
| <b>In case of skin contact</b> | Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation is experienced, flush with water. Get medical attention if irritation develops and persists. |
| <b>In case of eye contact</b>  | Immediately flush eyes with water for at least 15 minutes while holding. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.  |
| <b>If swallowed</b>            | Rinse mouth. Do NOT induce vomiting. If the material is swallowed, get medical advice or attention.                                                                                      |

### 4.2 Most important symptoms and effects, both acute and delayed

Headache. Serve eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

### 4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Water fog. Alcohol-resistant foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). |
| <b>Unsuitable extinguishing media</b> | Water jet.                                                                                 |

### 5.2 Specific hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: Carbon oxides.

### 5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapor.

## 5.4 Further information

**Flash Point** 9.7 °C at 1,013 hPa

**Autoignition Temperature** 235 °C

### Explosion limits

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 3            | 0           | N/A              |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 6.2 Environmental precautions

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

### 6.3 Methods and materials for containment and cleaning up

Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite, or diatomaceous earth. Place in container for disposal according to local / national regulations.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition. No smoking. Take precautionary measures against static discharge. Use only in well ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

### Incompatibilities

Alkali metals, oxidizing agents, peroxides.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Component | Type    | Value               |
|-----------|---------|---------------------|
| Ethanol   | PEL-TWA | 1000 ppm 1900 mg/m3 |

#### US. ACGIH Threshold Limit Values

| Component | Type | Value    |
|-----------|------|----------|
| Ethanol   | STEL | 1000 ppm |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Component | Parameter,value | Biological specimen |
|-----------|-----------------|---------------------|
| Ethanol   | IDLH            | 3300 ppm            |
|           | TWA             | 1000 ppm 1900 mg/m3 |

### Biological occupational exposure limits

No information available

### 8.2 Exposure controls

#### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower

## **Personal protective equipment**

### **Eye/face protection**

Chemical goggles are recommended.

### **Skin protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Wear appropriate chemical resistant clothing. Wear appropriate thermal protective clothing when necessary.

### **Body Protection**

Wear appropriate clothing to minimize skin exposure.

### **Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Respirator type: Chemical respirator with organic vapor cartridge.

### **Control of environmental exposure**

Avoid discharge into drains, water courses, or onto the ground.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

|                                 |                           |
|---------------------------------|---------------------------|
| Physical State                  | Liquid                    |
| Appearance                      | Clear                     |
| Odor                            | Characteristic            |
| Odor Threshold                  | No information available. |
| pH                              | No information available. |
| Melting Point/Range             | -97.8°C                   |
| Boiling Point/Range             | 64.7 °C at 1,013 hPa      |
| Evaporation Rate                | No information available. |
| Flammability (solid)            | Not applicable            |
| Flammability or explosive limit | No data available         |
| Upper                           | No data available         |
| Lower                           | No data available         |

|                                           |                          |
|-------------------------------------------|--------------------------|
| Vapor Pressure                            | 169.3 hPa at 25 °C       |
| Vapor Density                             | No information available |
| Density                                   | No information available |
| Solubility                                | No information available |
| Partition coefficient;<br>n-octanol/water | No data available        |
| Autoignition Temp                         | 300°C                    |
| Decomposition Temp                        | No information available |
| Viscosity                                 | No information available |
| Molecular Formula                         | N/A                      |
| Molecular Weight                          | N/A                      |
| VOC Content(%)                            | No information available |
| Oxidizing properties                      | Not oxidizing            |

**9.2 Other safety information** No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Vapors may form explosive mixtures with air.

### 10.4 Conditions to avoid

Heat, flames, and sparks. Extreme temperature and direct sunlight. Incompatible materials.

### 10.5 Incompatible materials

Alkali metals, oxidizing agents, peroxides.

### 10.6 Hazardous decomposition products

Carbon dioxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Product Information, Component Information**

**Acute toxicity**

| Component | LD50 Oral         | LD50 Dermal | LC50 Inhalation       |
|-----------|-------------------|-------------|-----------------------|
| Ethanol   | 10470 mg/kg (Rat) | -           | 117-125 mg/L/4h (Rat) |

**Skin corrosion/irritation**

May cause irritation, cracking, flaking, and defatting of skin on prolonged contact.

**Serious eye damage/eye irritation**

Liquid and vapor may cause irritation. Splashes may cause temporary pain and blurred vision.

**Respiratory or skin sensitization**

Not a respiratory sensitizer.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

| Component | CAS     | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------|---------|------------|------------|------------|------------|------------|
| Ethanol   | 64-17-6 | Not listed | Not listed | Not listed | Not listed | Not listed |

**Specific target organ toxicity - single exposure**

None known.

**Specific target organ toxicity - repeated exposure**

None known.

**Reproductive toxicity**

Alcohol is a developmental toxin when consumed during pregnancy.

**Chronic effects**

No information available.

**11.2 Additional Information**

No information available.

**SECTION 12: Ecological information****12.1 Toxicity**



| Product |              | Species                                        | Test Results                              |
|---------|--------------|------------------------------------------------|-------------------------------------------|
| Ethanol | EC10<br>EC50 | Freshwater Algae<br>Freshwater Algae           | 11.5 mg/L, 72 hours<br>275 mg/L, 72 hours |
|         | LC50<br>NOEC | Freshwater Fish<br>Freshwater Fish             | 11200 mg/L, 24 hours<br>250 mg/L          |
|         | EC50         | Freshwater Invertebrate<br>Marine Invertebrate | 5012 mg/L, 48 hours<br>857 mg/L, 48 hours |
|         | NOEC         | Freshwater Invertebrate<br>Marine Invertebrate | 9.6 mg/L, 10 days<br>79 mg/L, 96 hours    |

## 12.2 Persistence and degradability

Readily biodegradeable.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

The product is water soluble and may spread in water systems

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

# SECTION 13: Disposal considerations

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# SECTION 14: Transport information

## DOT (US)

|                      |                  |
|----------------------|------------------|
| UN Number            | UN1170           |
| Proper Shipping name | Ethanol Solution |
| Hazard Class         | 3                |

Packaging Group II

### **IMDG**

UN Number UN1170  
Proper Shipping name Ethanol Solution  
Hazard Class 3  
Packaging Group II

### **IATA**

UN Number UN1170  
Proper Shipping name Ethanol Solution  
Hazard Class 3  
Packaging Group II

## **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not applicable

**SARA 304 Emergency release notification**  
Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
See Section 2 for more information.

**SARA 313 (TRI reporting)**  
Not regulated.

### **Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not regulated.

**Safe Drinking Water Act**  
Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**  
Listed, Ethanol (CAS #64-17-5)..

#### **US state regulations**

**US. Massachusetts RTK - Substance List**  
Listed, Ethanol (CAS #64-17-5).

**US. New Jersey Worker and Community Right-to-Know Act**  
Listed, Ethanol (CAS #64-17-5).

**US. Pennsylvania Worker and Community Right-to-Know Law**  
Listed, Ethanol (CAS #64-17-5).

**California Proposition 65**  
Listed, Ethanol (CAS #64-17-5).

#### **SECTION 16: Other information**

Date of Issue: 3/6/2024  
Revision Date: 7/17/2026

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.