



**Material Safety Data Sheet**  
Reagent alcohol, 50% - 70%

LC-22210  
LC-22220

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Reagent alcohol, 50% - 70%

**Catalog Numbers:**

LC22210, LC22220

**Synonyms:****Company Identification:**

LabChem, Inc.  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7732-18-5	Water	balance
64-17-5	Ethyl alcohol	50 - 70

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Appearance: yellow*

*Flammable liquid and vapor. Warning! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Flash Point: > 57°F.*

*Target Organs: none known.*

**Potential Health Effects****Eye:**

May cause eye irritation.

**Skin:**

May cause irritation and defatting.

**Ingestion:**

Ingestion can result in toxic intoxication, poisoning.



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**Inhalation:**

May cause central nervous system effects including vertigo, anxiety, depression, muscle incoordination, and emotional instability. Respiratory irritation, dizziness, weakness, fatigue, nausea, headache, unconsciousness, asphyxiation (effects of narcotic).

**Chronic:**

Repeated or excessive exposure may result in respiratory irritation, cough, headache, dermatitis, conjunctivitis, with possible liver and kidney damage, weight loss, neurological disorders (tremors, amnesia, myocardial and circulatory failure).

### Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:**

Give conscious victim 2-4 cupfuls of milk or water. Get medical aid at once. Give oxygen if respiration is depressed. Induce vomiting (touch finger to back of throat) keeping head lower than hips (prevent aspiration into lungs).

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**

Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Move container if possible, avoid breathing vapors or dust. Dangerous fire/negligible explosion hazard when exposed to heat or flame.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

> 57°F (> 13.89°C)

**NFPA Rating:**

CAS# 7732-18-5: Not published.  
CAS # 64-17-5 health-0; flammability-3; reactivity-0

**Explosion Limits:**

Lower: No information      Upper: No information

### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.



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**Spills/Leaks:**

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Keep out of sewers/drains.

**Section 7 - Handling and Storage**

**Handling:**

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

**Storage:**

Store capped at room temperature. Protect from heat and incompatibles.

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**

Provide local exhaust or general dilution ventilation.

**Exposure Limits**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Ethyl alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA;

**OSHA Vacated PELs**

Ethyl alcohol: 1000 ppm TWA; 1900 mg/m<sup>3</sup> TWA

**Personal Protective Equipment**

**Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. High Levels- CCROV/SAR/SCBA. Firefighting- SCBAF:PP,PD. (Respirator Codes: DHEW (NIOSH) Publication No. 78-210).

**Section 9 - Physical and Chemical Properties**

Physical State: Liquid

Color: yellow

Odor: alcohol-like

pH: No information found.

Vapor Pressure: No information found.

Vapor Density: No information found.



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Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: Soluble.

Specific Gravity/Density: No information found.

Molecular Formula: No information found.

Molecular Weight: No information found.

**Section 10 - Stability and Reactivity**

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, excess heat.

**Incompatibilities with Other Materials**

Strong oxidizing agents, alkali metals.

**Hazardous Decomposition Products**

Oxides of carbon, formaldehyde.

**Hazardous Polymerization**

Has not been reported

**Section 11 - Toxicological Information**

**RTECS:**

CAS# 7732-18-5: ZC0110000.

CAS# 64-17-5: KQ6300000.

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 64-17-5:

Inhalation, mouse: LC50 = 39 gm/m<sup>3</sup>/4H

Inhalation, rat: LC50 = 20000 ppm/10H

Oral, mouse: LD50 = 3450 mg/kg

Oral, rabbit: LD50 = 6300 mg/kg

Oral, rat: LD50 = 7060 mg/kg.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 64-17-5

ACGIH: A4 - Not Classifiable as a Human Carcinogen

California: Not listed.

NIOSH: Not listed.

NTP: Not listed.

OSHA: Not listed.

IARC: Not listed.



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**Epidemiology:**

Toxicity: dichlorofluorescein has been delisted by FDA for use in drugs or cosmetics (D&C Orange No.8) because of its toxicity. Reagent alcohol (90% ethanol, 5% methanol, 5% isopropanol) is considered an irritant/narcotic; mutagenic/teratogenic data.

Isopropanol manufactured by the strong acid process is listed in group 1 by IARC. Workers manufacturing isopropanol by this process showed increased sinus and laryngeal cancer.

**Teratogenicity:**

**Reproductive:**

**Mutagenicity**

**Neurotoxicity**

**Section 12 - Ecological Information**

No information found.

**Section 13 - Disposal Considerations**

Dispose of in accordance with federal, state, and local regulations.

**Section 14 - Transport Information**

**US DOT**

Shipping Name: Ethanol solution

Hazard Class: 3

UN Number: UN1170

Packing Group: PG III

**Section 15 - Regulatory Information**

**US Federal**

**TSCA**

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 64-17-5 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ)**

None of the components are on this list.

**CERCLA/SARA Section 313**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**US State**



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**State Right to Know**

Ethyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

**California Regulations**

WARNING: This product contains Ethyl alcohol, a chemical known to the state of California to cause birth defects or other reproductive harm.

**European/International Regulations**

**Canadian DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 64-17-5 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 64-17-5 is listed on Canada's Ingredient Disclosure List.

**Section 16 - Other Information**

MSDS Creation Date: January 31, 1999

Revision Date: July 27, 2004

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