



**Material Safety Data Sheet**  
**Universal indicator (Bogen's) in alcohol**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:**

Universal indicator (Bogen's) in alcohol

**Catalog Numbers:**

LC26500

**Synonyms:**

Indicatoralcoholic

**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
67-63-0	Isopropyl alcohol	70
89-83-8	Thymol	0.095
76-59-5	Dibromothymolsulfonphthalein	0.075
60-11-7	4-dimethylaminoazobenzene	0.056
493-52-7	Methyl red	0.037
77-09-8	Phenolphthalein	0.019

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Appearance: Lightgreen*

*Warning! Flammable liquid. Keep away from heat, sparks, and flame. May cause irritation by all exposure routes. Flash Point: 11.7°C.*

*Target Organs: Noneknown.*

**Potential Health Effects**



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**Eye:**

Direct eye contact may cause burns and permanent corneal damage.

**Skin:**

May cause irritation and defatting.

**Ingestion:**

Ingestion causes narcosis, hematemesis, abdominal pain, uremia. Death may occur from respiratory paralysis.

**Inhalation:**

Inhalation causes dizziness, headache, confusion, nausea, hypotension, depressed respiration.

**Chronic:**

Prolonged exposure to IPA may cause dermatitis, conjunctivitis, CNS depression, and pulmonary damage.

## 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:**

Get medical aid at once. If victim is unconscious, give 2-4 glasses of water and induce vomiting.

**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:**

Wear self-contained breathing apparatus and protective clothing to prevent contact.

**Extinguishing Media:**

Use water spray to cool fire-exposed containers. Use dry chemical, carbon dioxide, or alcohol-resistant foam. A fine water mist may be used to smother fire or disperse vapors. Do not use a solid stream of water since the stream will scatter and spread the fire.

**Autoignition Temperature:**

399°C ( 750.20°F)

**Flash Point:**

11.7°C ( 53.06°F)

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS # 67-63-0 health-1; flammability-3; reactivity-0

CAS# 89-83-8: Not published.

CAS# 76-59-5: Not published.

CAS# 60-11-7: Not published.

CAS# 493-52-7: Not published.

CAS# 77-09-8: Not published.



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### Explosion Limits:

Lower: 2 Upper: 12

## Section 6 - Accidental Release Measures

### General Information:

Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Remove all sources of ignition. Keep out of sewers/drains. Burn waste in an approved incinerator or dispose via a licensed waste disposal company.

## 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:

Use adequate general or local, explosion-proof ventilation to keep airborne levels to acceptable levels.

### 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.
Isopropyl alcohol	(400 ppm) TWA; (500 ppm) STEL	400 ppm TWA; 980 mg/m <sup>3</sup> TWA	400 ppm TWA; 980 mg/m <sup>3</sup> TWA;
Thymol	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Dibromothymol sulfonphthalein	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
4-dimethylaminoazobenzene	None of the components are on this list.	NIOSH Potential Occupational Carcinogen - see Appendix A	Cancer suspect agent (see 29 CFR 1910.1015);
Methyl red	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Phenolphthalein	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

### OSHA Vacated PELs

Isopropyl alcohol: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA  
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## Personal Protective Equipment



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**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:**

Not required for normal use. Firefighting--any self-contained breathing apparatus with full face piece operated in pressure-demand mode. For emergency and non-routine exposure where TLV may be exceeded, use an appropriate NIOSH respirator.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** Light green

**Odor:** Non-residual

**pH:** No information found.

**Vapor Pressure:** No information found.

**Vapor Density:** 2.07 (air=1)

**Evaporation Rate:** 2.6 (CCl<sub>4</sub> =1)

**Viscosity:** No information found.

**Boiling Point:** 87°C ( 188.60°F)

**Freezing/Melting Point:** No information found.

**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble.

**Specific Gravity/Density:** 0.85

**Molecular Formula:** No information found.

**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

**Chemical Stability:**

Material is stable in closed containers at room temperature under normal storage and handling conditions.

**Conditions to Avoid:**

Incompatible materials.

**Incompatibilities with Other Materials**

Nitric acid, sulfuric acid, strong oxidizing agents, aldehydes (e.g. acetaldehyde, acrolein, chloral hydrate, formaldehyde), halogens, halogenated agents.

**Hazardous Decomposition Products**

Oxides of carbon.

**Hazardous Polymerization**

Has not been reported



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**Section 11 - Toxicological Information**

**RTECS:**

CAS# 7732-18-5: ZC0110000.  
CAS# 67-63-0: NT8050000.  
CAS# 89-83-8: XP2275000.  
CAS# 76-59-5: SJ7450000.  
CAS# 60-11-7: BX7350000.  
CAS# 493-52-7: DG8960000.  
CAS# 77-09-8: SM8380000.

**LD50/LC50:**

CAS# 7732-18-5:  
Oral, rat: LD50 = >90 mL/kg.  
CAS# 67-63-0:  
Oral, mouse: LD50 = 3600 mg/kg  
Oral, rabbit: LD50 = 6410 mg/kg  
Oral, rat: LD50 = 5045 mg/kg  
Skin, rabbit: LD50 = 12800 mg/kg.  
CAS# 89-83-8:  
Oral, mouse: LD50 = 640 mg/kg  
Oral, rat: LD50 = 980 mg/kg.  
CAS# 76-59-5:  
No information found. CAS# 60-11-7:  
Oral, mouse: LD50 = 300 mg/kg  
Oral, rat: LD50 = 200 mg/kg.  
CAS# 493-52-7:  
No information found. CAS# 77-09-8:  
No information found.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 67-63-0  
ACGIH: Not listed.  
California: Not listed.  
NIOSH: Not listed.  
NTP: Not listed.  
OSHA: Not listed.  
IARC: Group 3  
CAS# 89-83-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 76-59-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 60-11-7  
ACGIH: Not listed.  
California: carcinogen; initial date 1/1/88  
NIOSH: occupational carcinogen  
NTP: Suspect carcinogen  
OSHA: Possible Select carcinogen  
IARC: Group 2B  
CAS# 493-52-7  
ACGIH: Not listed.  
California: Not listed.  
NIOSH: Not listed.  
NTP: Not listed.  
OSHA: Not listed.



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IARC: Group 3  
CAS# 77-09-8  
ACGIH: Not listed.  
California: carcinogen; initial date 5/15/98  
NIOSH: Not listed.  
NTP: Suspect carcinogen  
OSHA: Possible Select carcinogen  
IARC: Group 2B

### Epidemiology:

At 400ppm, vapors of iso-propyl alcohol (IPA) may cause mild irritation of the eyes, nose, and throat. Prolonged exposures above the TLV may cause nausea, headache, and mild narcosis. The liquid is irritating to the eyes and produces intense stinging and burning. If not promptly removed, IPA may cause eye damage. Repeated or prolonged contact with the skin may cause irritation and dermatitis. While toxic skin absorption is unlikely it should be considered in meeting the TLV.

### 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:** Flammable liquid, n.o.s.  
(Isopropanol)

**Hazard Class:** 3

**UN Number:** UN1993

**Packing Group:** PG II

## Section 15 - Regulatory Information

US Federal



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### TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.  
CAS# 67-63-0 is listed on the TSCA Inventory.  
CAS# 89-83-8 is listed on the TSCA Inventory.  
CAS# 76-59-5 is listed on the TSCA Inventory.  
CAS# 60-11-7 is listed on the TSCA Inventory.  
CAS# 493-52-7 is listed on the TSCA Inventory.  
CAS# 77-09-8 is listed on the TSCA Inventory.

### SARA Reportable Quantities (RQ)

CAS# 60-11-7: final RQ = 10 pounds (4.54 kg)

### CERCLA/SARA Section 313

This material contains Isopropyl alcohol (CAS# 67-63-0, 70%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

4-dimethylaminoazobenzene is not at a high enough concentration to be reportable under Section 313.

### OSHA - Highly Hazardous

None of the components are on this list.

## US State

### State Right to Know

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

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

### California Regulations

## European/International Regulations

### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.  
CAS# 67-63-0 is listed on Canada's DSL List.  
CAS# 89-83-8 is listed on Canada's DSL List.  
CAS# 76-59-5 is listed on Canada's DSL List.  
CAS# 60-11-7 is listed on Canada's DSL List.  
CAS# 493-52-7 is listed on Canada's DSL List.  
CAS# 77-09-8 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# 67-63-0 is listed on Canada's Ingredient Disclosure List.  
CAS# 89-83-8 is not listed on Canada's Ingredient Disclosure List.  
CAS# 76-59-5 is not listed on Canada's Ingredient Disclosure List.  
CAS# 60-11-7 is listed on Canada's Ingredient Disclosure List.  
CAS# 493-52-7 is not listed on Canada's Ingredient Disclosure List.  
CAS# 77-09-8 is not listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: September 10, 1998

Revision Date: August 1, 2008



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