



SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Universal Indicator

CAS number N/A

Synonyms N/A

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

12501 Pauls Valley Road Austin, Texas 78737

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

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements Highly flammable liquid and vapor.

Precautionary statements

Prevention: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection.

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

Fire: In case of fire, use CO2, dry chemical, or foam for extinction.

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

Disposal: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

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

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Ethanol	-	64-17-5	47.34%
Bromothymol Blue, Sodium Salt	-	34722-90-2	0.05%
DI Water	-	7732-18-5	52.45%
Methyl Orange	-	547-58-0	0.02%
Methyl Red, Sodium Salt	-	845-10-3	0.015%
Phenolphthalien	-	77-09-8	0.035%

SECTION 4: First aid measures

4.1 **Description of first-aid measures**

Laballey.com Page 2 of 10 General advice

If inhaled Move exposed individual to fresh air. Loosen clothing as necessary and

position individual in a comfortable position. If breathing is difficult, give

oxygen. Immediately get medical attention.

In case of skin contact Wash affected area with soap and water. Rinse/flush exposed skin gently

using water for 15-20 minutes. Seek medical attention if irritation persists or

if concerned.

In case of eye contact Protect unexposed eye. Remove contact lens(es) if able to do so during

rinsing. Rinse or flush exposed eye gently using water for 15-20 minutes.

Immediately get medical assistance.

If swallowed Rinse mouth thoroughly. Do not induce vomiting. Dilute mouth with water or

milk after rinsing. Immediately get medical assistance.

4.2 Most important symptoms and effects, both acute and delayed

Irritation. Nausea. Headache. Shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water, dry chemical, chemical foam, Carbon

dioxide, or alcohol-resistant foam. Water spray can

keep containers cool.

Unsuitable extinguishing media None.

5.2 Specific hazards arising from the substance or mixture

Moderate explosion hazard. Dangerous fire hazard when exposed to heat, sparks, and open flames.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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5.4 Further information

Flash Point 15.5°C (Closed Cup)

Autoignition Temperature No information available.

Explosion limits

Upper 18.00% **Lower** 3.30%

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available.
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

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits. Ensure adequate ventilation.

6.2 Environmental precautions

Prevent from reaching drains, sewers, or waterways. Ethanol has a slight acute and chronic toxicity to aquatic life.

6.3 Methods and materials for containment and cleaning up

If necessary, use trained response staff or contractor. Wear protective eyeware, gloves, and clothing. Remove all sources of ignition. Contain spill. Absorb with suitable material and place in chemical waste container. Ventilate area of spill. Use non-sparking equipment. Dispose of empty containers as unused product.

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

Precautions on safe handling

Wear protective eyeware, gloves, and clothing. Do not eat, drink, or smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes, and clothing. Empty containers can still be hazardous since they retain product residue.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a cool location. Store in a secure flammable storage area away from sources of ignition. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources, or open flame. Keep container tightly sealed. Store with like-hazards. Protect from freezing and physical damage.

Incompatibilities

Strong oxidizers, heat, sparks, open flames, platinum, sodium, bromine pentafluoride, potassium dioxide, acetyl bromide, and acetyl chloride.

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	Туре	Value		
Ethanol	IDLH	3300 ppm		
Ethanor	TWA	1000 ppm 1900 mg/m3		

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use/handling. Ensure that dust-handling systems (exhaust dusts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work area.

Personal protective equipment

Eye/face protection

Safety glasses with side shields or goggles.

Skin protection

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Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. If exposure limit is exceeded, a full-face respirator with organic cartridge may be worn.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid

Appearance Clear-green Odor Alcohol-like

Odor Threshold No information available PH No information available Melting Point/Range No information available

Boiling Point/Range 80°C Evaporation Rate 3.6

Flammability (solid) Not applicable

Flammability or explosive limit

Upper 18.00% Lower 3.30%

Vapor Pressure 48 mmHg @20°C

Vapor Density No information available Density No information available

Solubility Soluble

Partition coefficient: No data available

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

No information available

Molecular Formula N/A
Molecular Weight N/A

VOC Content(%) No information available
Oxidizing properties No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

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10.1 Reactivity

None.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Excessive heat. Incompatible materials. Ignition sources.

10.5 Incompatible materials

Strong oxidizers, heat, sparks, open flames, platinum, sodium, bromine pentafluoride, potassium dioxide, acetyl bromide, and acetyl chloride.

10.6 Hazardous decomposition products

Carbon oxides (CO, CO2). Acrid and irritating fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Universal Indicator	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	130.7 mg/L (Rat)

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ethanol	64-17-5	Not listed	Known	A3	Not listed	A3
Bromothymol Blue Salt	34722-90-2	Not listed				
Water	7732-18-5	Not listed				

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Methyl Orange	547-58-0	Not listed	Not listed	Not listed	Not listed	Not listed
Methyl Red Salt	845-10-3	Not listed	Not listed	Not listed	Not listed	Not listed
Phenolphthalein	77-09-8	Group 2B	Reasonably Anticipated	Not listed	Х	Not listed

Specific target organ toxicity - single exposure

No information available.

Specific target organ toxicity - repeated exposure

No information available.

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Ethanol has a slight acute and chronic toxicity to aquatic life.

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Aqueous solution has high mobility in soil.

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

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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-No UN1170
Proper Shipping Name Ethanol
Hazard Class 3
Packing Group II

IMDG

UN-No UN1170
Proper Shipping Name Ethanol
Hazard Class 3
Packing Group II

IATA

UN-No UN1170
Proper Shipping Name Ethanol
Hazard Class 3
Packing 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.

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SARA 313 (TRI reporting)

Listed, Phenolphthalein (CAS #77-09-8).

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). Listed, Phenolphthalein (CAS #77-09-8).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Ethanol (CAS #64-17-5).

California Proposition 65

Listed, Ethanol (CAS #64-17-5). Listed, Phenolphthalein (CAS #77-09-8).

SECTION 16: Other information

Issue date: 10/24/2024

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.

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