

## Ethyl Alcohol Denatured Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Ethyl Alcohol Denatured

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9746

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing mist, vapors or spray (P261).

Hazard class: Specific target organ toxicity, single exposure (Category 1). Causes damage to organs (H370). Addition of denaturant makes the product poisonous. Cannot be made nonpoisonous.



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ethyl alcohol	64-17-5	C <sub>2</sub> H <sub>5</sub> OH	46.07	80-86%
Isopropyl alcohol	67-63-0	C <sub>3</sub> H <sub>8</sub> O	60.10	9%
Methyl alcohol	67-56-1	CH <sub>3</sub> OH	32.04	4-5%
Methyl isobutyl ketone	108-10-1	C <sub>6</sub> H <sub>12</sub> O	100.16	1%
Water	7732-18-5	H <sub>2</sub> O	18.00	5%
Synonyms: Ethanol (BE0011, BE0014)				

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Call a POISON CENTER or physician (P307+P311).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313). **If on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

### SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid due to ethyl alcohol content.

**NFPA Code**

Flash point: 21 °C

H-2

When heated, releases flammable fumes.

F-3

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

R-0

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## **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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## **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can.

Keep container tightly closed and cool (P233+P235). Use explosion-proof electrical and ventilating equipment (P241).

Take precautionary measures against static discharge (P243).

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## **SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

Use only in a hood or well-ventilated area (P271).

Exposure guidelines: (as ethyl alcohol) PEL 1000 ppm (OSHA), Ceiling 1000 ppm (ACGIH)

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## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear liquid. Strong alcohol odor.

Boiling point: 78 °C

Soluble: Miscible with water and many organic solvents.

Melting point: -144 °C

Specific gravity: 0.7893

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## **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals, ammonia, moisture, heat, open flame, or any source of ignition.

Shelf life: Excellent, if stored properly.

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## **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Eye irritation, nausea, dizziness, headache.

ORL-RAT LD<sub>50</sub>: 7060 mg/kg (as ethyl alcohol)

IHL-RAT LC<sub>50</sub>: 20,000 ppm/10H (as ethyl alcohol)

Chronic effects: Liver damage, reproductive, teratogenic effects, carcinogen.

SKN-RBT LD<sub>50</sub>: N.A.

Target organs: Eyes, skin, central nervous system, liver, reproductive system.

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## **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

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## **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

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## **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Ethyl alcohol solution. Hazard class: 3, Flammable liquid. UN number: UN1170.

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## **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (200-578-6), RCRA code D001.

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## **SECTION 16 — OTHER INFORMATION**

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

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