

ENG SCIENTIFIC, LLC

121 Jersey Ave, 2nd Floor
New Brunswick, NJ, USA 08901

SAFETY DATA SHEET (SDS)

#1 - IDENTIFICATION

Product Identifier – Davidson’s Working Solution w/10% Glacial Acetic Acid

Product Code – 9728

Synonyms - Same

Recommended use - Professional, scientific and medical-technical activities

Recommended restrictions - None known

Manufacturer:

Company Name - ENG Scientific, LLC
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#2 - Hazard(s) Identification

Physical hazards Flammable liquid Category 2

Health hazard Serious eye damage/eye irritant Category 2

Label elements



Signal word Danger

Hazard statement Flammable liquid

Precautions Keep away from heat/open flames/hot surfaces

Storage Store at room temperature

Supplemental info Avoid release to the environment

Disposal Dispose of contents-according to local regulations

NFPA Rating - HEALTH: 2
- FLAMMABILITY: 3
- REACTIVITY: 0

#3 – Composition

Chemical name: Formaldehyde CAS # 55-00-0
Acetic Acid CAS # 64-19-7
Ethanol CAS # 64-17-5
Sodium Phosphate Monobasic CAS # 10049-21-5
Sodium Phosphate Dibasic CAS # 7558-79-4

#4 – First-aid measures

Inhalation: Remove to fresh air.

Eye contact: Remove contact lenses if worn. In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Obtain medical attention.

Skin contact: Wash skin and clothing with soap and water.

Swallowing: If patient is fully conscious, give two glasses of water. Induce vomiting. This should be done only by Medical or experienced first aid personnel. Obtain medical attention without delay.

#5 – Fire-fighting measures

Extinguishing media: Use water spray, carbon dioxide, dry chemical, alcohol-type, or universal type foams applied by manufacturer's recommended technique.

Special fire-fighting procedures: Ethanol burns with a clean clear flame that is almost invisible in daylight. Closed containers may rupture violently and suddenly release ethanol when exposed to fire or excessive heat for a sufficient period of time. Vapors are slightly heavier than air and may travel long distances toward sources of ignition.

#6 – Accidental release measures

Steps to be taken in case material is released or spilled: Extinguish all sources of ignition; ventilate the area; flood or flush the area with water. Prevent spilled ethanol from entering sewers, confined spaces, drains, or waterways. Put material in suitable, covered, labeled containers. Flush area with water.

#7 – Handling and storage

Handling: No smoking or open flame in storage, use or handling areas. Use explosion proof electrical equipment. Ensure proper grounding procedures are in place.

Storage: Store at room temperature and in a tightly closed container.

#8 – Exposure controls/personal protection

Respiratory protection: NOISH - approved respirator.

Ventilation: General (mechanical) room ventilation recommended. Special local ventilation also recommended.

Protective gloves: Impermeable.

Eye protection: Chemical splash goggles or face shield.

Other protective equipment: Lab coat, eye bath, safety shower.

#9 – Physical and chemical properties

Appearance: Clear, colorless liquid.

Odor: Pungent odor. **Boiling point:** 210°F

Specific gravity: (H₂O = 1) 0.7295 @ 20°C

Vapor density: (air = 1) N/A **Solubility in H₂O = Complete** **Freezing point:** N/A **Evaporation Rate = N/A**

Flash point: 86°F, Tag Closed Cup ASTM D 56

#10 – Stability and reactivity

Stability: Stable as supplied.

Incompatibility: Strong acids or bases; active metals; oxidants

Conditions to avoid: Avoid contact with sparks, heat, open flame, or ignition sources.

Hazardous polymerization: Will not occur.

#11 - Toxicology information

Route of Exposure - Inhalation

Prolonged inhalation of vapors causes dizziness, nausea, visual impairment, respiratory failure, muscular non-coordination and narcosis.

Route of Exposure - Skin

Repeated or prolonged contact causes drying, brittleness, cracking and irritation.

First Aid - Skin

Remove contaminated clothing and wash contaminated skin with large amounts water. If irritation persists, contact a physician,

Route of Exposure - Eyes

Liquid and vapor in high concentrations, causes irritation, tearing and burning sensation.

First Aid - Eyes

Flush eyes with water for at least 15 minutes. Contact a physician

Route of Exposure - Ingestion

Poisonous if swallowed. Can cause mental sluggishness, nausea and vomiting.

Health Conditions Aggravated by Exposure N/A

#12 – Ecological information

DO NOT discharge into sewer or waterways. Small spills should be flushed with large quantities of water. Large spills should be collected for disposal. Flush with water, controlled burning.

#13 – Disposal considerations

Disposal of hazardous material may be subject to federal, state or local regulations. The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which ENG Scientific, LLC shall be responsible.

#14 – Transport information

PROPER SHIPPING NAME: Ethanol

UN NUMBER: 1170

HAZARD CLASS: 3

PACKING GROUP: II

DOT SHIPPING LABEL: Flammable Liquid



N/A For Limited Quantity

#15 – Regulatory information

US federal regulations All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, SUBPT. D) Not regulated

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not on regulatory list

CERCLA Hazardous Substance List (40 CFR 302.4) Methanol (CAS 67-56-1)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard – Yes

Delayed Hazard – Yes

Fire Hazard – Yes

Pressure Hazard – No

Reactivity Hazard – No

SARA 302 Extremely hazardous substance Not listed

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Ethanol (CAS 64-17-5)

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130): Ethanol (CAS64-17-5)

Clean Water Act (CWA) Section 112® (40 CFR 68.130): Ethanol (CAS 64-17-5)

Safe Drinking Water Act (SDWA): Ethanol (CAS 64-17-5)

Drug Enforcement Administration (DEA) List 2 Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and

Chemical Code Number: Not listed

Drug Enforcement Administration (DEA) List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c):

Not regulated

DEA Exempt Chemical Mixtures Code Number: N/A

Food and Drug Administration (FDA): N/A

US state regulation: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK – Substance List: Ethanol (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act: Ethanol (CAS 64-17-5)

US. Pennsylvania RTK – Hazardous Substances: Ethanol (CAS 64-17-5)

US. Rhode Island RTK: Ethanol (CAS 64-17-5)

US California Proposition 65:

US-California Proposition 65 – Carcinogens and Reproductive Toxicity (CRT): Not listed

International Inventories

Country/Region	Inventory name	On Inventory*
Canada	Non-domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Chemical Substances (EINECS)	Yes
U.S.	Toxic Substances Control Act (TSCA) Inventory	Yes
Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

** Yes complies with the inventory requirements administered by the governing country.*

#16 – Other information

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Further information The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which ENG Scientific, LLC shall be responsible.