

ENG SCIENTIFIC, LLC

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

SAFETY DATA SHEET (SDS)

#1 - IDENTIFICATION

Product Identifier – Acetic Acid, 50%

Product Code – 9830

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 liquids	Category 3
	Corrosive to metals	Category 1
Health hazard	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 1A
	Serious eye damage/eye irritation	Category 1

Label elements



Signal word	Danger
Hazard statement	Flammable liquid and vapor. May be corrosive to metals. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life with long lasting effects.
Precautions	Keep away from heat/spark/open flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/lightning equipment. Keep container tightly closed. Keep only in original container. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protectives clothing/eye protection/face protection. Use only outdoors in a well-ventilated area. Avoid release to the environment.
Storage	Store in a well-ventilated place. Keep cool. Store in corrosive resistant container with a resistant inner liner. Store locked up.
Supplemental info	Avoid release to the environment
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
NFPA Rating	- HEALTH: 3 - FLAMMABILITY: 0 - REACTIVITY: 0

#3 – Composition

Chemical name: Acetic Acid

CAS # 64-19-7

#4 – First-aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately.

Swallowing: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

#5 – Fire-fighting measures

Extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Special fire-fighting procedures: N/A

#6 – Accidental release measures

Steps to be taken in case material is released or spilled: Wear safety glasses, gloves, and protective clothing and soak up spilled solution with disposable towels. Small spills should be wiped up with absorbent material. Large spills should be neutralized with lime or soda ash and collected for disposal. Dilute and wash down drain with excess water.

#7 – Handling and storage

Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray.

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

#8 – Exposure controls/personal protection

Respiratory protection: N/A

Ventilation: N/A

Protective gloves: Standard

Eye protection: Chemical goggles or face shield

Other protective equipment: Chemical resistant apron

#9 – Physical and chemical properties

Appearance: Colorless liquid.

Odor: Vinegar odor

Boiling point: 101.325 kPa > 244°F

Specific gravity: (H₂O = 1) 1.05

Vapor density: (air = 1) 2.1

Solubility in H₂O = Complete

Freezing point: N/A

Evaporation Rate = N/A

Flash point: N/A

(test methods)

#10 – Stability and reactivity

Stability: Stable as supplied.

Incompatibility: Strong acids or bases, active metals, oxidants, acylating agents.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures

Hazardous polymerization: Will not occur.

#11 - Toxicology information

Route of Exposure – Inhalation N/A

Route of Exposure – Skin N/A

Route of Exposure – Eyes Causes serious eye damage

Route of Exposure – Ingestion Causes digestive tract burns

#12 – Ecological information

Small spills should be wiped up with absorbent material. Large spills should be neutralized with lime or soda ash and collected for disposal.

#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: Acetic acid solution

UN NUMBER: UN2790

HAZARD CLASS: Class 8

PACKING GROUP: II

DOT SHIPPING LABEL:



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)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard – No

Delayed Hazard – No

Fire Hazard – No

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: Not regulated

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130): Not regulated

Clean Water Act (CWA) Section 112® (40 CFR 68.130): Not regulated

Safe Drinking Water Act (SDWA): Not regulated

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: Not regulated

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: Not regulated

US. New Jersey Worker and Community Right-to-Know Act: Not regulated

US. Pennsylvania RTK – Hazardous Substances: Not regulated

US. Rhode Island RTK: Not regulated

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.