

ENG SCIENTIFIC, LLC

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

SAFETY DATA SHEET (SDS)

#1 - IDENTIFICATION

Product Identifier – Perchloric Acid (7%)

Product Code – 3250217

Synonyms – Same

Recommended use - Professional, scientific and medical-technical activities

Recommended restrictions - None known

Manufacturer:

Company Name - ENG Scientific, LLC
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New Brunswick, NJ, USA 08901

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#2 - Hazard(s) Identification

Physical hazards Oxidizing liquids Category 1

Health hazard Serious eye damage/irritation Category 1

Label elements



Signal word Danger.
Hazard statement May intensify fire; oxidizer
Precautions Keep away from heat, sparks, open flames, hot surfaces. No smoking.
Storage Store in well ventilated place at room temperature. Keep locked up.
Disposal Dispose of contents-according to local regulations

NFPA Rating - HEALTH: 3
- FLAMMABILITY: 0
- REACTIVITY: 1
- SPECIAL: OX

#3 – Composition

Chemical name: Perchloric Acid, 70% CAS # 7601-90-3
Distilled Water CAS # 7732-18-5

#4 – First-aid measures

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing

Eye contact: Remove contact lenses if worn. In case of contact, rinse cautiously with water for several minutes. Immediately call a poison center or doctor/physician.

Skin contact: Remove immediately all contaminated clothing. Rinse skin with water. Immediately call a poison center or doctor/physician.

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: Use standard firefighting procedures and consider the hazards of other involved materials.

#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: Keep only in the original container in a cool, well-ventilated place away from combustible materials, incompatible materials. Keep container closed when not in use.

#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: N/A **Boiling point:** N/A

Specific gravity: N/A

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

Flash point: N/A

#10 – Stability and reactivity

Stability: Stable as supplied under normal conditions of use and storage. May intensify fire; oxidizer.

Incompatibility: Strong reducing agents. Strong bases. Ammonia. Combustible materials. Metals. Organic compounds.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame.

Hazardous polymerization: Hydrogen chloride, oxygen, chlorine.

#11 - Toxicology information

Route of Exposure – Inhalation Do not breathe fumes, mist, vapors, or spray.

Route of Exposure – Skin Causes sever skin burns and eye damage.

First Aid – Skin Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing.

Route of Exposure – Eyes Tearing might occur.

First Aid – Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Route of Exposure – Ingestion Rinse mouth. Do NOT induce 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: Perchloric Acid
UN NUMBER: 1802
HAZARD CLASS: 8
PACKING GROUP: II
DOT SHIPPING LABEL: Corrosive, Oxidizer



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) Not on regulatory list

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard	– Yes
Delayed Hazard	– Yes
Fire Hazard	– Yes
Pressure Hazard	– No
Reactivity Hazard	– Yes

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): N/A

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: Perchloric Acid (CAS 7601-90-3)

US. New Jersey Worker and Community Right-to-Know Act: Perchloric Acid (CAS 7601-90-3)

US. Pennsylvania Worker and Community RTK Law: Perchloric Acid (CAS 7601-90-3)

US. Rhode Island RTK: Perchloric Acid (CAS 7601-90-3)

US California Proposition 65: WARNING

US-California Proposition 65 – Carcinogens and Reproductive Toxicity (CRT): Perchloric Acid (CAS 7601-90-3)

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.