

# ENG SCIENTIFIC, LLC

121 Jersey Ave, 2<sup>nd</sup> Floor  
New Brunswick, NJ, USA 08901

## SAFETY DATA SHEET (SDS)

### #1 - IDENTIFICATION

**Product Identifier** – Hydrochloric Acid, 6N

**Product Code** – 9866

**Synonyms** – Same

**Recommended use** - Professional, scientific and medical-technical activities

**Recommended restrictions** - None known

**Manufacturer:**

**Company Name** - ENG Scientific, LLC  
121 Jersey Ave, 2<sup>nd</sup> Floor  
New Brunswick, NJ, USA 08901

**Contact Telephone** (973) 472 - 7200

**Toll Free** (800) 922 - 0223

**Website** [www.engscientific.com](http://www.engscientific.com)

**E-mail** info@engscientific.com

**Emergency Contact** Chemtrec (800) 424-9300  
(217) 424-5200 ADM Corporate

### #2 - Hazard(s) Identification

**Physical hazards** N/A

|                      |                                   |            |
|----------------------|-----------------------------------|------------|
| <b>Health hazard</b> | Acute toxicity, oral              | Category 4 |
|                      | Skin corrosion/irritation         | Category 1 |
|                      | Serious eye damage/eye irritation | Category 1 |
|                      | Sensitization, respiratory        | Category 1 |

**Label elements**



**Signal word** Danger

**Hazard statement** Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation

**Precautions** Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Storage** Store in a well-ventilated place at room temperature. Keep container tightly closed. Store locked up.

**Supplemental info** Avoid release to the environment

**Disposal** Dispose of contents according to local regulations

**NFPA Rating**

|                 |   |
|-----------------|---|
| - HEALTH:       | 3 |
| - FLAMMABILITY: | 0 |
| - REACTIVITY:   | 1 |

### #3 – Composition

**Chemical name:** Hydrochloric Acid CAS # 7647-01-0

### #4 – First-aid measures

**Inhalation:** Remove to fresh air. Call a physician or poison control center immediately.

**Eye contact:** Flush eyes with water. Remove contact lenses. Call a physician or poison control center immediately.

**Skin contact:** Rinse skin and clothing with water/shower. Call a physician or poison control center immediately.

**Swallowing:** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting.

## **#5 – Fire-fighting measures**

**Extinguishing media:** Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>)

**Special fire-fighting procedures:** Irritating, corrosive and/or toxic gases or fumes will be released during a fire.

## **#6 – Accidental release measures**

**Steps to be taken in case material is released or spilled:** Wear gloves and soak up spilled solution with disposable towels. Small spills should be flushed with water. Large spills should be collected for disposal. Dilute and wash down drain with excess water.

## **#7 – Handling and storage**

**Handling:** Protect for damage.

**Storage:** Store in a well-ventilated place at room temperature. Keep container tightly closed. Store locked

## **#8 – Exposure controls/personal protection**

**Respiratory protection:** Use a chemical cartridge respirator for concentrations exceeding the Occupational Exposure Limit

**Protective gloves:** Standard

**Eye protection:** Wear eye/face protection. Chemical goggles are recommended.

**Other protective equipment:** Lab coat.

## **#9 – Physical and chemical properties**

**Appearance:** Clear, colorless liquid.

**Odor:** Pungent

**Boiling point:** 228.2 °F (109 °C)

**Specific gravity:** (H<sub>2</sub>O = 1) 1.10

**Vapor density:** (air = 1) 1.0

**Solubility in H<sub>2</sub>O =** Complete

**Freezing point:** N/A

**Evaporation Rate =** N/A

**Flash point:** N/A

## **#10 – Stability and reactivity**

**Stability:** Stable as supplied.

**Incompatibility:** Reacts with strong oxidizers, chromic anhydride, lead perchlorate, perchloric acids.

**Conditions to avoid:** Same as above.

**Hazardous polymerization:** Will not occur.

## **#11 - Toxicology information**

**Route of Exposure – Inhalation** May cause irritation to respiratory system.

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

**Route of Exposure – Eyes** Causes severe eye burns. Causes serious eye damage.

**Route of Exposure – Ingestion** Causes digestive tract burns. Harmful if swallowed.

**Health Conditions Aggravated by Exposure** N/A

## **#12 – Ecological information**

Very toxic to aquatic life. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

## **#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:** Hydrochloric Acid

**UN NUMBER:** 1789

**HAZARD CLASS:** 8

**PACKING GROUP:** II

DOT SHIPPING LABEL: Corrosive 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)** Hydrogen Chloride (CAS 7647-01-0)

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard – Yes

Delayed Hazard – Yes

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:** Hydrogen Chloride (CAS 7647-01-0)

**Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130):**

Hydrogen Chloride (CAS 7647-01-0)

**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:** Hydrogen Chloride (CAS 7647-01-0) 6545

**Drug Enforcement Administration (DEA) List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c):** Hydrogen Chloride (CAS 7647-01-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number:** Hydrogen Chloride (CAS 7647-01-0) 6545

**Food and Drug Administration (FDA):** Not regulated

**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:** Hydrogen Chloride (CAS 7647-01-0)

**US. New Jersey Worker and Community Right-to-Know Act:** Hydrogen Chloride (CAS 7647-01-0) 500 lbs

**US. Pennsylvania RTK – Hazardous Substances:** Hydrogen Chloride (CAS 7647-01-0)

**US. Rhode Island RTK:** Hydrogen Chloride (CAS 7647-01-0)

**US California Proposition 65:**

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

**International Inventories**

| <b>Country/Region</b> | <b>Inventory name</b>                                       | <b>On Inventory*</b> |
|-----------------------|---|----------------------|
| 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**

**Issue date** January 31, 2022

**Version #** 04

**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.