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## Material Safety Data Sheet A-250

Product Name Acid Etching Gel A-250  
Emergency: Chemtrec 1-800-424-9300 (24 hours)

### Chemical characterization

**Description:** Mixture of the substances listed below with non-hazardous additions.

#### Hazardous components:

7647-01-0 Hydrochloric acid C; R 34-37 20-30%

77-92-9 Citric acid Xi; R 36 5.0-10.0%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### Hazard description:

C Corrosive

### Information pertaining to particular dangers for man and environment:

Review information in this MSDS and product label prior to use.

Causes burns.

### Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

### NFPA ratings (scale 0 - 4)

0

Health = 2

Fire = 1

Reactivity = 0

### HMIS-ratings (scale 0 - 4)

REACTIVITY

3

1

0

Health = 3

Fire = 1

Reactivity = 0

**General information:** Immediately remove any clothing soiled by the product.

### After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

If skin irritation continues, consult a doctor.

### After eye contact:

Rinse opened eye for several minutes under running water.  
Seek immediate medical advice.

**After swallowing:**

Do not induce vomiting; immediately call for medical help.  
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

**Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

**Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:** No special measures required.

**Measures for cleaning/collecting:**

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.  
Sweep up spilled product into receptacles.  
Use neutralizing agent.  
Dispose contaminated material as waste according to section 13 of the MSDS.

**Handling:**

**Information for safe handling:**

Risk of serious damage to eyes.  
Open and handle receptacle with care.

**Information about protection against explosions and fires:**

Empty containers may retain hazardous residue, both liquid and vapor. Do not cut, drill, grind or weld on or near container, whether empty or full.

**Storage:**

**Information about storage in one common storage facility:** No special measures required.

**Further information about storage conditions:** None.

\*

**Additional information about design of technical systems:** No further data; see item 7.

**Components with limit values that require monitoring at the workplace:**

**7647-01-0 Hydrochloric acid**

PEL

REL

TLV

Short-term value: C 7 mg/m<sup>3</sup>, C 5 ppm

Short-term value: C 7 mg/m<sup>3</sup>, C 5 ppm

Short-term value: C 7.5 mg/m<sup>3</sup>, C 5 ppm

NIC-C 2; C 2.98; NIC-A4

**Additional information:** The lists that were valid during the creation were used as basis.

**Personal protective equipment:**

**General protective and hygienic measures:**

Avoid contact with the eyes and skin.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.

**Breathing equipment:**

Respiratory protection is not normally required. If vapor or mist is created during use, an Acid Gas respirator should be considered.

**Protection of hands:**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Material of gloves**

Gloves should be impermeable and resistant to the product. Selection of material should be considered before use.  
Synthetic gloves

**Eye protection:** ● Tightly sealed goggles

Face protection

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

**Body protection:** Protective work clothing

**Color:** According to product specification

**Odor:** Characteristic

**Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 85°C (185°F)

**Flash point:** > 100°C (> 212°F)

**Ignition temperature:** 1010.0°C (1850°F)

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Vapor pressure at 20°C (68°F):** 20.0 hPa (15 mm Hg)

**Density:** Not determined.

**Solubility in / Miscibility with**

**Water:** Fully miscible.

**Thermal decomposition:** No decomposition if used according to specifications.

**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**77-92-9 Citric acid**

Oral LD50 6730 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** Caustic effect on skin and mucous membranes.

**on the eye:** Strong caustic effect.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

**Product:**

Comply with Federal, State, and local regulations

Waste product is defined as hazardous by US EPA due to corrosivity (D002).

**Recommendation:**

● ● ● ● Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**DOT regulations:**

● ● ● H

**azard class:** 8

**Identification number:** UN1789

**Packing group:** III

**Proper shipping name (technical name):** Hydrochloric acid, mixture

**Label** 8

**Land transport ADR/RID (cross-border):**

● ● ●

**ADR/RID class:** 8 Corrosive substances

**Item:** 5c

**Danger code (Kemler):** 80

**UN-Number:** 1789

**Description of goods:** Hydrochloric acid, mixture

**Maritime transport IMDG:**

● ● ●

**IMDG Class:** 8

**Page:** 8183

**UN Number:** 1789

**Label** 8

**Packaging group:** III

**EMS Number:** F-A,S-B

**MFAG:** 700

**Marine pollutant:** No

**Proper shipping name:** Hydrochloric acid, mixture

**Air transport ICAO-TI and IATA-DGR:**

● ● ●

**ICAO/IATA Class:** 8

**UN/ID Number:** 1789

**Label** 8

**Packaging group:** III

**Proper shipping name:** Hydrochloric acid, mixture

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

**Section 355 (extremely hazardous substances):**

7647-01-0 Hydrochloric acid

**Section 313 (specific toxic chemical listings):**

7647-01-0 Hydrochloric acid

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**WHMIS Classification(s):**



**CEPA (Canadian DSL):**

All ingredients are listed.

**Proposition 65**

**Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

**Carcinogenicity categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**IARC (International Agency for Research on Cancer)**

7647-01-0 Hydrochloric acid 3

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Product related hazard informations:**

**Hazard symbols:** ● ● ● C Corrosive

**Risk phrases:**

Causes burns.

**Safety phrases:**

Keep out of the reach of children.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

If swallowed, seek medical advice immediately and show this container or label.

Dispose of this material and its container at hazardous or special waste collection point

This material and its container must be disposed of as hazardous waste.

If swallowed, rinse mouth with water (only if the person is conscious)

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the

responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

USA

*Biodegradable Material*