

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 01/26/2015

Version 1.3

### **SECTION 1.Identification**

#### **Product identifier**

Product number 170242

Product name Tin standard solution traceable to SRM from NIST SnCl₄ in HCl 2 mol/l

1000 mg/l Sn Certipur®

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for analysis

# Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821.

United States of America | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

## **SECTION 2. Hazards identification**

#### **GHS Classification**

Corrosive to Metals, Category 1, H290 Skin corrosion, Category 1B, H314 Serious eye damage, Category 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **GHS-Labeling**

Hazard pictograms



Signal Word
Danger

Hazard Statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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Precautionary Statements

P234 Keep only in original container.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inliner.

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

#### SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution

#### Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

hydrochloric acid (>= 5 % - < 10 %)

7647-01-0

Exact percentages are being wihtheld as a trade secret.

### **SECTION 4. First aid measures**

#### Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eve contact

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

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irritant effects

# Indication of any immediate medical attention and special treatment needed

No information available.

### **SECTION 5. Fire-fighting measures**

# Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

Fire may cause evolution of:

Hydrogen chloride gas

# Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by

keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

### **Environmental precautions**

Do not empty into drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® H<sup>+</sup>, Art. No. 101595).

Dispose of properly. Clean up affected area.

### SECTION 7. Handling and storage

## Precautions for safe handling

Observe label precautions.

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# Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No metal containers.

Tightly closed.

Store at +15°C to +25°C (+59°F to +77°F).

# SECTION 8. Exposure controls/personal protection

# Exposure limit(s)

Ingredients

Basis Value Threshold Remarks

limits

hydrochloric acid 7647-01-0

ACGIH Ceiling Limit Value: 2 ppm

NIOSH/GUIDE Ceiling Limit Value and

Time Period (if

5 ppm 7 mg/m³

specified):

5 ppm

OSHA\_TRANS Ceiling Limit Value:

7 mg/m<sup>3</sup>

5 ppm

Z1A Ceiling Limit Value:

7 mg/m³

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

#### Hygiene measures

Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

Eye/face protection

Safety glasses

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protective equipment:

protective clothing

Respiratory protection

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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### SECTION 9. Physical and chemical properties

Physical state liquid

Color colorless

Odor odorless

Odor Threshold No information available.

pH ca. 0

at 68 °F (20 °C)

Melting point No information available.

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Density ca.1.034 g/cm<sup>3</sup>

at 68 °F (20 °C)

Relative density No information available.

Water solubility No information available.

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties No information available.

Oxidizing properties No information available.

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Corrosion May be corrosive to metals.

### SECTION 10. Stability and reactivity

# Reactivity

See below

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with:

Metals

Violent reactions possible with:

The generally known reaction partners of water.

### Conditions to avoid

no information available

#### Incompatible materials

Metals, metal alloys, (generation of hydrogen)

#### Hazardous decomposition products

in the event of fire: See section 5.

#### **SECTION 11. Toxicological information**

### Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact

Target Organs

Eyes

Skin

Respiratory system

Cornea

Skin irritation

slight irritation

Eye irritation

slight irritation

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

### Carcinogenicity

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

#### **Further information**

Quantitative data on the toxicity of this product are not available.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

# Ingredients

hydrochloric acid
No information available.

#### **SECTION 12. Ecological information**

#### **Ecotoxicity**

No information available.

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

Additional ecological information

Biological effects:

Harmful effect due to pH shift.

Hazard for drinking water supplies.

Further information on ecology

Discharge into the environment must be avoided.

#### Ingredients

hydrochloric acid

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Substance does not meets the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

# **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **SECTION 14. Transport information**

Land transport (DOT)

UN number UN 1789

Proper shipping name HYDROCHLORIC ACID

Class 8
Packing group II
Environmentally hazardous ---

Air transport (IATA)

UN number UN 1789

Proper shipping name HYDROCHLORIC ACID

Class 8
Packing group II
Environmentally hazardous -Special precautions for user no

Sea transport (IMDG)

UN number UN 1789

Proper shipping name HYDROCHLORIC ACID

Class 8
Packing group II
Environmentally hazardous -Special precautions for user
EmS yes
F-A S-B

### **SECTION 15. Regulatory information**

#### **United States of America**

#### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

hydrochloric acid 7647-01-0 *6.9851* %

**SARA 302** 

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The following components are subject to reporting levels established by SARA Title III, Section

302:

Ingredients

hydrochloric acid 7647-01-0

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Ingredients

hydrochloric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Ingredients

hydrochloric acid

### **DEA List I**

Not listed

#### **DEA List II**

Listed

Ingredients

hydrochloric acid 7647-01-0

# **US State Regulations**

# Massachusetts Right To Know

Inaredients

hydrochloric acid

### Pennsylvania Right To Know

Ingredients

hydrochloric acid

### **New Jersey Right To Know**

Ingredients

hydrochloric acid

### California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

# **Notification status**

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

KOREA: Not in compliance with the inventory

#### **SECTION 16. Other information**

#### Training advice

Provide adequate information, instruction and training for operators.

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#### Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date01/26/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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