



ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

*Bringing Simplicity
to a Solution*

Material Safety Data Sheet

Sulfanilamide in 3.7% HCl

1. Product Identification

Synonyms: CA-6 Analyzer Nitrite Reagent #1

CAS No.: Not applicable to mixtures.

Molecular Weight: Not applicable to mixtures.

Chemical Formula: Not applicable to mixtures.

Product Codes: ECD P/N 2010096-1

Manufacture By:
Electro-Chemical Devices, Inc.
1681 Kettering
Irvine, CA 92614

Phone: (800) 729-1333

2. Hazards Identification

Emergency Overview

OSHA Hazards

Corrosive

GHS Classification

Corrosive to metals (Category 1)

Skin irritation (Category 2)

Serious eye damage (Category 1)

GHS Label elements, including precautionary statements



Pictogram:

Signal word **Danger**



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Hazard statement(s)

H290 May be corrosive to metals.

H315 Causes skin irritation.

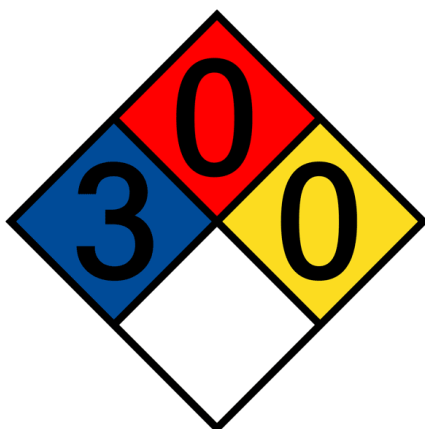
H318 Causes serious eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

NFPA Rating



Potential Health Effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin May be harmful if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Ingestion May be harmful if swallowed.

3. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
-----	-----	-----	-----
Hydrochloric Acid	7647-01-0	3.5-4 % w/v	No
Sulfanilamide	63-74-1	0.5%	No
Water	7732-18-5	Balance	No



4. First Aid Measures

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Skin Contact:

Wash with soap and water and consult a physician.

Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire Fighting Measures

Flammability of the Product: Non-flammable

Auto-ignition Temperature: Not applicable

Flash Points: Not applicable

Flammable Limits: Not applicable

Products of Combustion: Hazardous decomposition products formed under fire conditions. – Hydrogen chloride gas

Fire Hazards: Not applicable

Explosion Hazards: Static Discharge: None

Mechanical Impact: None

Fire Fighting Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protective Clothing: Wear self-contained breathing apparatus for firefighting if necessary

Special Remarks: The product itself does not burn.

6. Accidental Release Measures

Personal precautions



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Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling: Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry, well ventilated place. Store in a tightly closed container

8. Exposure Controls/Personal Protection

Components	CAS No.	Value	Control Parameters	Basis
Hydrochloric acid	7647-01-0	C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Upper Respiratory Tract irritation Not classifiable as a human carcinogen			
		C	5 ppm 7 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000
	The value in mg/m ³ is approximate. Ceiling limit is to be determined from breathing-zone air samples.			
		C	5 ppm 7 mg/m ³	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		C	5 ppm 7 mg/m ³	USA. NIOSH Recommended Exposure Limits

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection



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Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Choose impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

General industrial hygiene practice

9. Physical and Chemical Properties

Appearance:	Clear, liquid.
Odor:	Odorless.
Solubility:	Complete (100%)
Specific Gravity:	1.005 g/ml, water = 1
pH:	Acidic, pH = 0
% Volatiles by volume @ 21C (70F):	NA
Boiling Point:	100°C
Melting Point:	No information found.
Vapor Density (Air=1):	Not applicable.
Vapor Pressure (mm Hg):	Not applicable.

10. Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	no data available
Incompatibilities with Other Materials:	Bases, Amines, Alkali metals, Metals, hexalithium disilicide, permanganates, e.g. potassium permanganate, Fluorine
Hazardous Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas. Other decomposition products - no data available.
Hazardous Polymerization:	Has not been reported



11. Toxicological Information

Toxicity: No data available

CARCINOGENIC EFFECTS:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)

ACGIH: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Acute Effects on Humans: Not available

Synergetic Products (Toxicologically): Not available.

Irritancy Draize Test: Not available

Sensitization: Not available

Toxicity to Reproductive System: Not available

Teratogenic Effects: Not available

Mutagenic Effects: Not available

Potential health effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Eco-toxicity: No data available

Environmental: No information available

Physical: No information available.



13. Disposal Considerations

Treatment: No special considerations, observe all Federal, State and local laws when disposing of this solution.

14. Transport Information

DOT (US)

UN number: 1789

Class: 8

Packing group: III

Proper shipping name: Hydrochloric acid

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 1789

Class: 8

Packing group: III EMS-No: F-A, S-B

Proper shipping name: HYDROCHLORIC ACID

Marine pollutant: No

IATA

UN number: 1789

Class: 8 Packing

group: III

Proper shipping name: Hydrochloric acid

15. Regulatory Information

OSHA Hazards

Corrosive

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components



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Hydrochloric acid: CAS-No. 7647-01-0 Revision Date 1993-04-24

Pennsylvania Right To Know Components

Hydrochloric acid: CAS-No. 7647-01-0 Revision Date 1993-04-24

Water: CAS-No. 7732-18-5

New Jersey Right To Know Components

Hydrochloric acid: CAS-No. 7647-01-0 Revision Date 1993-04-24

Water: CAS-No. 7732-18-5

California Prop. 65 Components

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

16. Other Information

Text of H-code(s) and R-phrase(s)

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Skin Corr. Skin corrosion

STOT SE Specific target organ toxicity - single exposure

Label Hazard Warning:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Label First Aid: Not applicable.

Product Use: Laboratory Reagent.

Revision Information: MSDS-2010096-1 rev. a June. 2013
