



# ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

Bringing Simplicity  
to a Solution

## Material Safety Data Sheet

Sodium Persulfate, 25% w/v solution

### 1. Product Identification

<b>Synonyms:</b>	CA-6 Analyzer Nickel Reagent #2
<b>CAS No.:</b>	Not applicable to mixtures.
<b>Molecular Weight:</b>	Not applicable to mixtures.
<b>Chemical Formula:</b>	Not applicable to mixtures.
<b>Product Codes:</b>	ECD P/N 2010492-1
<b>Manufacture By:</b>	Electro-Chemical Devices, Inc.  1681 Kettering  Irvine, CA 92614  Phone: (800) 729-1333

### 2. Hazards Identification

#### Emergency Overview

<b>Caution!</b>	Irritant Oxidizer Avoid contact with skin, eyes, or clothing
<b>If swallowed:</b>	Do not induce vomiting. Give large quantity of water and call a physician. Wash areas of contact with plenty of water for 15minutes. For eyes, get medical attention.
<b>Contains:</b>	Sodium persulfate, Water



#### Hazard pictograms

**Signal word:** Danger

**Hazard statements**

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H315 Causes skin irritation.



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H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

## Precautionary statements

### Response

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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.



## HMIS RATING

## POTENTIAL HEALTH EFFECTS

### Target Organs:

Eyes, skin, and respiratory system.

### Eye Contact:

May cause irritation, redness, pain, and tearing.

### Inhalation:

Respiratory tract irritant may cause burns on acute contact.

### Skin Contact:

May cause irritation, redness, and pain.

### Ingestion:

May cause burns of the mouth, throat and stomach. Symptoms may include abdominal pain, nausea and vomiting, general gastrointestinal upset.

**Chronic Effects/Carcinogenicity:** None

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## 3. Composition/Information on Ingredients

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1681 Kettering, Irvine, CA 92614, USA ▪ (949) 336-6060 ▪ (800) 729-1333 ▪ (949) 336-6064 fax [www.ECDI.com](http://www.ECDI.com)

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Ingredient	CAS No	Percent	Hazardous
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Sodium Persulfate	3458-72-8	10-40% w/v	No
Water	7775-27-1	Balance	No

## 4. First Aid Measures

GENERAL ADVICE:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
ORAL EXPOSURE:	If swallowed, wash out mouth with water provided person is conscious.  Never give anything by mouth to an unconscious person.  Consult a physician immediately.
INHALATION EXPOSURE:	If inhaled, remove to fresh air.  If breathing is difficult, GIVE OXYGEN.  Consult a physician.
DERMAL EXPOSURE:	In case of skin contact, flush with copious amounts of soap and water for at least 15 minutes.  Take off contaminated clothing and shoes immediately.  Consult a physician.
EYE EXPOSURE:	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.  Assure adequate flushing by separating the eyelids with fingers.  Consult a physician.

## 5. Fire Fighting Measures

Flammability of the Product:	Non-flammable
Auto-ignition Temperature:	Not applicable
Flash Points:	Not applicable



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<b>Flammable Limits:</b>	Not applicable
<b>Products of Combustion:</b>	Not applicable
<b>Fire Hazards:</b>	Not combustible, may react with reducing agents and combustibles and cause ignition.
<b>Explosion Hazards:</b>	Static Discharge: None
<b>Mechanical Impact:</b>	None
<b>Fire Fighting Media:</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Protective Clothing:</b>	Use protective clothing and breathing equipment appropriate for the surrounding fire.
<b>Special Remarks:</b>	None

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## 6. Accidental Release Measures

### PROCEDURE(S) OF PERSONAL PRECAUTIONS

- Exercise appropriate precautions to minimize direct contact with skin or eyes.

### ENVIRONMENTAL PRECAUTIONS

- Do not let product enter drains.

### METHODS FOR CLEANING UP

- Absorb on sand or vermiculite and place in closed containers for disposal.

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## 7. Handling and Storage

### HANDLING

- User Exposure- Avoid contact with eyes, skin, and clothing. Avoid formation of dust and aerosols.

Wash thoroughly after handling.

### STORAGE

- Suitable: Keep container tightly closed in a dry and well-ventilated place.



## 8. Exposure Controls/Personal Protection

### ENGINEERING CONTROLS

- Safety shower and eye bath. Contains no substances with occupational exposure limit values.

### PERSONAL PROTECTIVE EQUIPMENT

- Respiratory: Respiratory protection is not required.
- Hand: Protective gloves. Neoprene gloves
- Eye: Chemical safety glasses with side-shields conforming to EN166.

### GENERAL HYGIENE MEASURES

- Handle in accordance with good industrial hygiene and safety practice.
- Wash thoroughly after handling.

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## 9. Physical and Chemical Properties

**Appearance:** Clear, colorless liquid.

**Odor:** Odorless.

**Solubility:** Complete (100%)

**Specific Gravity:** 1.19 water = 1

**pH:** Neutral, pH 5 > 9

**% Volatiles by volume @ 21C (70F):** ca. 99

**Boiling Point:** 100°-108°C

**Melting Point:** No information found.

**Vapor Density (Air=1):** Not applicable.

**Vapor Pressure (mm Hg):** Not applicable.

**Evaporation Rate (BuAc=1):**

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## 10. Stability and Reactivity



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## STABILITY

- Stable: Stable.
- Stable under recommended storage conditions.

## MATERIAL TO AVOID

- Materials to Avoid: Keep away from heat, Alkalis, Reducing agent, Combustible material, Oxidizing material....

## HAZARDOUS DECOMPOSITION PRODUCTS

- Formed under Fire Conditions.

Oxides of sulphur evolved in fire.

## HAZARDOUS POLYMERIZATION

- Will not occur.

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## 11. Toxicological Information

**ACUTE TOXICITY:** N/A

**IRRITATION AND CORROSION:** N/A

**SENSITIZATION:** N/A

**CHRONIC EXPOSURE:**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by OSHA.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION** May be harmful if inhaled. Causes respiratory tract irritation.

**SKIN** Causes skin irritation.

**EYES** Causes eye irritation.



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**INGESTION** May be harmful if swallowed. May cause slight gastrointestinal irritation, May cause stomach pain, cramps and/or diarrhea.

**SIGNS AND SYMPTOMS OF EXPOSURE:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**ADDITIONAL INFORMATION:** RTECS: N/A

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## 12. Ecological Information

<b>Eco-toxicity:</b>	No data available
<b>Environmental:</b>	No information available
<b>Physical:</b>	No information available.
<b>Other:</b>	Do not empty into drains.

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## 13. Disposal Considerations

### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

- Contact a licensed professional waste disposal service to dispose of this material.
- Observe all federal, state, and local environmental regulations.

**The product is not classified as dangerous for the environment.**

### CONTAMINATED PACKAGING

- Dispose of as unused product.

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## 14. Transport Information

<b>DOT (US):</b>	UN number: UN3216
<b>UN proper shipping name:</b>	Persulfate, Inorganic, Aqueous Solution, n.o.s., (Sodium Persulfate)
<b>Transport hazard:</b>	5.1
<b>Packing group:</b>	III
<b>Environmental hazards:</b>	No



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## IMDG

UN number:	UN3216
UN proper shipping name:	Persulfate, Inorganic, Aqueous Solution, n.o.s., (Sodium Persulfate)
Transport hazard:	5.1
Packing group:	III
Environmental hazards:	No

## IATA

UN number:	UN3216
UN proper shipping name:	Persulfate, Inorganic, Aqueous Solution, n.o.s., (Sodium Persulfate)
Transport hazard:	5.1
Packing group:	III
Environmental hazards:	No

## DOT Label

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## 15. Regulatory Information

### OSHA HAZARDS

Oxidizer, Harmful by ingestion, Respiratory sensitizer, Skin sensitizer, Irritant

### SARA 302 COMPONENTS

**SARA 302:** No components in this material are subject to reporting requirements of SARA Title III, Sec. 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

Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

- No components are subject to the Massachusetts Right to Know Act.





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Pennsylvania Right To Know Components • CAS Number • Revision Date

Disodium peroxodisulphate (Sodium Persulfate) 7775-27-1 2007-03-01

New Jersey Right To Know Components • CAS Number • Revision Date

Disodium peroxodisulphate (Sodium Persulfate) 7775-27-1 2007-03-01

California Prop. 65 Components

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

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## 16. Other Information

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 Precautions:

None.

Label First Aid:

Not applicable.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS-2010492-1 rev. a Jan. 2014

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