



Material Safety Data Sheet

Sodium Sulfite/Bisulfite reducing solution

1. Product Identification

Synonyms: CA-6 Analyzer TP Blue Reagent #3

CAS No.: Not applicable to mixtures.

Molecular Weight: Not applicable to mixtures.

Chemical Formula: Not applicable to mixtures.

Product Codes:

ECD P/N 2010023-1

Manufacture By:

Electro-Chemical Devices, Inc.

1681 Kettering

Irvine, CA 92614

Phone: (800) 729-1333

2. Hazards Identification

Emergency Overview

Signal Word: Warning

May cause eye and skin irritation May cause digestive tract irritation.

Hazard Pictogram



Potential Health Effects

Eye:

May cause moderate eye irritation

Skin:

May cause moderate skin irritation



Ingestion:

May cause irritation of the digestive tract

Inhalation:

May cause respiratory tract irritation

Chronic Exposure:

Prolonged or repeated skin contact may cause dermatitis. Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

3. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium metabisulfite	7681-57-4	7 %	Yes
Sodium sulfite	7757-83-7	>5 %	No
4-Amino-3-hydroxynaphthalene-1-sulphonic acid	116-63-2	>0.01%	No
Water	7732-18-5	to 100%	No

4. First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Inhalation:



If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

5. Fire Fighting Measures

General Information:

No fire and explosion hazard when exposed to heat or flame. Move container if possible, cool with fog or spray.

Extinguishing Media:

For small fires, use water fog, dry chemical, carbon dioxide, or regular foam.

Auto ignition Temperature:

No information found.

Flash Point:

No information found.

6. Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

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: No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

8. Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.



ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

Bringing Simplicity
to a Solution

Exposure Limits

Chemical Name:

ACGIH Water, None of the components are on this list.

Sodium metabisulfite, 5 mg/m³ TWA

1-Amino-2-naphthol-4-sulfonic acid, none listed

Sodium Sulfite,

NIOSH Water, None of the components are on this list.

Sodium metabisulfite, 5 mg/m³

1-Amino-2-naphthol-4-sulfonic acid, none listed

Sodium Sulfite

OSHA Water, None of the components are on this list.

Sodium metabisulfite, None of the components are on this list.

1-Amino-2-naphthol-4-sulfonic acid, none listed

Sodium Sulfite

OSHA Vacated PELs

Sulfuric acid: 1 mg/m³ TWA

Personal Protective Equipment

Eyes:

Wear splash-proof safety goggles.

Skin:

Wear neoprene, natural Nitrile rubber, or PVC gloves.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. Physical and Chemical Properties

Appearance:

Clear, colorless liquid

Odor:

Odorless.

Solubility:

Complete (100%)

Specific Gravity:

1.01

pH:

Acidic



ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

*Bringing Simplicity
to a Solution*

% Volatiles by volume @ 21C (70F):

N/A

Boiling Point:

>100°C

Melting Point:

< 0°C

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

Not applicable.

Evaporation Rate (BuAc=1):

> 1

10. Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures

Conditions to Avoid:

Incompatible materials

Incompatibilities with Other Materials

Strong oxidizing agents, alkalis

Hazardous Decomposition Products

Oxides of nitrogen, oxides of sulfur

Hazardous Polymerization

Has not been reported

11. Toxicological Information

RTECS:

CAS# 7681-57-4: UX8225000

CAS# 116-63-2: not known

CAS# 7757-83-7: not known

LD50/LC50:

CAS# 7681-57-4:



Oral, rat: LD50 = 1131 mg/kg;

CAS# 7757-83-7

ORAL (LD50): Acute: 820 mg/kg [Mouse.].

CAS# 116-63-2

No data available

Carcinogenicity:

CAS# 7681-57-4:

Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop65.

CAS# 7757-83-7

Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 116-63-2

Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

California: Not listed.

NIOSH: Not listed.

NTP: Not listed.

OSHA: Not listed.

IARC: Not listed.

Epidemiology: Two cases of occupational asthma in laundry workers exposed to sodium metabisulfite were reported. Sodium metabisulfite may be considered to be the anhydride of sodium bisulfite and is the chief constituent of commercial dry sodium bisulfite.

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations



ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

Bringing Simplicity
to a Solution

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

US DOT

Not a DOT controlled material

Hazard Class: Not regulated

UN Number: Not regulated

Packing Group: Not regulated

15. Regulatory Information

US Federal

TSCA:

CAS# 7681-57-4 is listed on the TSCA Inventory.

CAS# 7757-83-7 is listed on the TSCA Inventory

CAS# 116-63-2 is not listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 7681-57-4 final RQ = 5000 pounds (454 kg)

CERCLA/SARA Section 313:

No chemicals are reportable under Section 313.

OSHA - Highly Hazardous: None of the components are on this list..

US State

State Right to Know:

CAS# 7681-57-4, CAS# 7757-83-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota and Massachusetts.

California Regulations:

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations



ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

Bringing Simplicity
to a Solution

Canadian DSL/NDSL:

CAS# 7681-57-4 is listed on Canada's DSL List.

CAS# 7757-83-7 is listed on Canada's DSL List.

CAS# 116-63-2 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7681-57-4 is listed on Canada's Ingredient Disclosure List

CAS# 7757-83-7 is listed on Canada's Ingredient Disclosure List

CAS# 116-63-2 is listed on Canada's Ingredient Disclosure List

16. Other Information

NFPA Ratings: Health: **2** Flammability: **0** Reactivity: **0**

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-2010023-1rev.A, March 2012
