

SAFETY DATA SHEET



SECTION 1 – IDENTIFICATION AND COMPANY DETAIL

Product Name: C-50 Electrolyte
Product Code(s): C-50
Recommended Use: For use in the Electro-Chemical Etching Process
Manufacturers Name: Monode Marking Products, Inc.
Address: 9200 Tyler Boulevard
Mentor, OH 44060

Emergency Telephone: (440) 975-8802, available during offices hours,
8:00am – 5:00pm EST, Monday – Friday, in English.

Fax Number: (440) 975-8836
Date Prepared: 31 March 2015

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PPE†	
†Sec. 8	

SECTION 2 – HAZARDS IDENTIFICATION



Hazardous Pictogram:

Signal Word: **WARNING**

Precautionary Statement: Harmful if swallowed.
Do not swallow.
Avoid Skin and Eye contact.

Inhalation: N/A

Ingestion: Large quantities of Oxalic Acid can be fatal. It can possibly damage G.I. tract and central nervous systems. Nausea, shock, convulsion, facial discoloration and death at five grams

Skin contact: Generally aggravated by exposure: Dermatitis may possibly be aggravated on contact

Eye contact: Irritation, burning to mucous membranes on contact

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components (specific chemical identity/ Common name):

SOLIDS:	Triethanolamine	2%
	Nitrite Salt	2%
	N-Nitrosodiethanolamine	0.009%

LIQUIDS:

TRADE SECRET: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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SECTION 4 – FIRST AID MEASURES

Skin contact: Wash with soap and water thoroughly after handling.
Eye contact: Flush eyes with thoroughly with water for 15 minutes; if irritation continues, consult physician.
Ingestion: Do not induce vomiting. Give diluted milk of magnesia, lime water, or milk.
Inhalation: Local exhaust is sufficient.

Always seek medical attention if irritation continues.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: N/A
Special fire fighting procedures: N/A
Unusual fire and explosions hazards: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment: rubber gloves, safety goggles, optional-apron

Steps to be taken in the event of accidental release:

Small Spills: Flush with water to sewer.

Large Spills: Use suitable absorbent and dispose of in DOT approved waste containers.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in the event of spillage or chemical release:

Small Spills: Flush with water to sewer. Minimize the release of the chemical into the environment.

Large Spills: Use suitable absorbent and dispose of in DOT approved waste containers.

Waste disposal method: Disposal of material should be in compliance with all current local, state and federal regulations.

Precautions to be taken in Handling and Storage: Keep container tightly closed. Keep from freezing (32 degrees [F]) Wash hand thoroughly after handling. No eating, drinking or smoking in work area.

Incompatibility: (materials to avoid) Strong acids, strong reducing agents, chlorites, and hypochlorites.

Hazardous Polymerization: May Occur

Other Precautions: Wash hands thoroughly after handling.

SECTION 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

Occupation Exposure Limits: N/A



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Personal Protective Equipment:

Respiratory System:	Local exhaust is sufficient.
Skin and Body:	Optional-Apron
Hands:	Rubber gloves.
Eyes:	Safety glasses or goggles
Other/Special:	Local exhaust is sufficient.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid and suspension.
Color:	Yellow
Odor:	slight odor
Odor Threshold:	N/A
pH:	7.0 to 7.4
Boiling Point:	212° (F)
Melting/Freezing Point:	N/A - Freezing below 32° (F)
% Volatile:	N/A
Flash Point:	N/A
Fire Hazards in presence of various substances:	N/A
Auto-ignition temperature:	N/A
Explosive Properties:	No risk
Lower explosion limit:	N/A
Oxidizing properties:	N/A
Vapor Pressure:	(mm Hg.) @ 25° (C) [77° (F)] : 23.7
Evaporation Rate:	Like water
Density:	Like water
Solubility:	Complete (100%)
Vapor Density:	Like water

SECTION 10 – REACTIVITY DATA

Stability:	STABLE
Conditions to avoid:	N/A
Incompatibility: (materials to avoid)	If solution dries; metals and alkalis, strong acids.
Hazardous Decomposition or By-products:	None, but surrounding fire may produce chlorine compounds, nitrogen oxide and gases.
Hazardous polymerization:	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity:	NTP: No	IARC Monographs: No	OSHA Regulated: No
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The toxicological information for the components is: N/A

Acute effects

Causes eye irritation.

Causes skin irritation.

Material is irritating to mucous membranes.



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May be harmful by ingestion or if contacted with skin. Large quantities of Oxalic Acid can be fatal. It can possibly damage G.I. tract and central nervous systems. Nausea, shock, convulsion, facial discoloration and death at five grams.

SECTION 12 – ECOLOGICAL INFORMATION

Potential as Pollutant: Material is not considered a pollutant.

SECTION 13 – DISPOSAL CONSIDERATIONS

Effective waste disposal treatment should be utilized. COD – 495,000ppm

Biological: Capable of biological oxidation

SECTION 14 – TRANSPORT INFORMATION

Special Precautions: Keep container tightly closed. Keep from freezing (32 degrees [F]).

This is a Non-Hazardous product.

UN Number

US DOT (United States Department of Transportation): Not Regulated

IMO/IMDG (International Maritime Dangerous Goods): Not Regulated

IATA (International Air Transport Association): Not Regulated

ADR (Agreement on Dangerous Goods by Road (Europe)): Not Regulated

RID (Regulations Concerning The International Transport of Dangerous Goods (Europe)): Not Regulated

AND (European Agreement Concerning The Carriage of dangerous Goods by Inland Waterways): Not Regulated

SECTION 15 – TRANSPORT INFORMATION

Safety Phrases: N/A

Risk Phrases: N/A

Regulations: N/A

SECTION 16 – OTHER INFORMATION

Source of key data used to

Compile Safety Data Sheet:

Material Safety Data Sheet. Essentially similar to U.S. Department of Labor Form OSHA-20

Issue Date:

09 Feb 1990

Changes to Issue:

04 January 2021

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