

+1-401-766-4260 (8:30AM - 5:00PM ET)

Revision Date: 2012-05-25 Reason for Revision: Section 14 Updated

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 70632 Electrode Cleaning Solution for Food

Additional Product Codes: HI 70632L Processing and Preparation HI 70632M

Application: Cleans and Disinfects Electrodes of Blood

Products

Company Information (USA): Hanna Instruments, Inc.

584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information: 1-800-426-6287 (8:30AM - 5:00PM ET)

USA Emergency Contact Information: 1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information: +1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address: tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Flammable

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Ethyl Alcohol Component:

200-578-6 EC-No.:

CAS-No.: 64-17-5

F Hazard:

R: 11 Phrases:

Content: > 40% - < 70%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.

After Skin Contact: Wash affected area with plenty of water. Remove contaminated clothing After Eye Contact: Rinse out with plenty of water for at least 10 minutes. Obtain medical attention.

After Swallowing: Immediately make victim Drink plenty of water. Summon doctor.

General Information: Remove contaminated, soaked clothing immediately and dispose of safely.

FIRE-FIGHTING MEASURES **SECTION 5:**

Suitable Extinguishing Media:

Foam, Dry Powder, Carbon Dioxide

Special Risks:

Combustible. Vapors heavier than air. Forms explosive mixtures with air at ambient temperatures. Keep away from sources of ignition.

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Cool container with spray water from a save distance. Take measures to prevent electrostatic charging.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid substance contact. Do not inhale vapors. Ensure supply of fresh air in enclosed rooms.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

SECTION 7: HANDLING AND STORAGE

Handling:

Storage:

Takes measures to prevent electrostatic charging. Keep away from sources of ignition. Work under hood. Do not inhale substance. Avoid generation of vapors/aerosols.

Tightly closed. In a well ventilated place. Keep away from sources of ignition and heat. Store at room temperature (+15 to +25 °C recommended). Protect from light and moisture. Accessible only for authorized persons.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Туре	Value	Source	Туре	Value	Source	
Ethanol (Denatured)						
TWA (8hr)	1907 mg/m³	Belgium	TWA (8hr)	1900 mg/m ³	Canada (Ontario)	
TWA (8hr)	1880 mg/m³	Canada (Quebec)	TWA (8hr)	1900 mg/m ³	France	
TWA (8hr)	960 mg/m³	Germany	TWA (8hr)	1900 mg/m ³	Greece	
TWA (8hr)	1900 mg/m³	Hungary	TWA (8hr)	260 mg/m³	Netherlands	
TWA (8hr)	1900 mg/m³	Poland	TWA (8hr)	1000 ppm	Portugal	
TWA (8hr)	1900 mg/m³	Romania	TWA (8hr)	1910 mg/m³	Spain	
TWA (8hr)	1920 mg/m³	UK	TWA (8hr)	1000 ppm	USA (ACGIH)	
TWA (8hr)	1900 mg/m ³	USA (OSHA)				

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when vapors/aerosols are generated. Work under hood.

Rubber or plastic Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Apply skin-protective barrier cream. Wash hands after working with substance.

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SECTION 9:	PHYSICAL/CHEMICAL	PROPERTIES

Alcohol-like odor Density at 20°C: 0.91 g/cm3 Appearance: Colorless liquid Odor: Melting Point: ND **Boiling Point:** Solubility: Soluble pH at 20°C: Lower not Flash Point: ~ 23°C ND **Explosion Limit:**

available

Upper not available

Thermal Decomp.: NA



SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Hazardous Decomposition Products:

Heating

No information available.

Hazardous Polymerization:

Substances to be Avoided:

Will not occur.

No information available

Further Information:

Flammable. Explosive with air in a vaporous/gaseous state.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

APPLICABLE TO MAIN COMPONENT:

Specific symptoms in animal studies:

Eye irritation test (rabbit): Irritations (ethanol).

Skin irritation test (rabbit): No irritation (ethanol). Subacute to chronic toxicity

Applicable to the main component:

Sensitization:

Sensitisation test (Magnusson and Kligman): negative. Bacterial mutagenicity: Salmonella typhimurium: negative.

Bacterial mutagenicity: Ames test: negative.

Potential Health Effects:

Inhalation: Slight mucosal irritations. Risk of absorption.

Skin Contact: After long-term exposure to the chemical: dermatitis.

Slight irritations. Eye Contact:

Ingestion: Nausea, vomiting, diarrhoea.

Systemic effects: euphoria. After absorption of large amounts: salivation dizziness, inebriation, narcosis, Further Data:

respiratory paralysis. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Chronic Toxicity: Acute Toxicity:

Not Available

Ethanol (Denatured)

LD50: Oral - Rat - 7060 mg/kg

Additional Data:

Not Available



SECTION 12: ECOLOGICAL INFORMATION

APPLICABLE TO MAIN COMPONENT:

Abiotic degradation: Rapid degradation. (air) Biologic degradation:

Biodegradation: 94 % modified OECD screening test;

Readily biodegradable.

Behavior in environmental compartments: Distribution: log p(o/w): ¬0.32 (ethanol);

No bioaccumulation is to be expected (log P(o/w <1).

Ecotoxic effects: Biological effects:

In high concentrations: Harmful effect on aquatic organisms. When used properly, no impairments in the function of waste-water treatment plants are to be expected.

Fish toxicity: L.idus LC 50 : 8140 mg/L /48 h;

Daphnia toxicity: Daphnia magna EC 50: 9268-14221 mg/L /48 h;

Maximum permissible toxic concentration:

Algeal toxicity: Sc.quadricauda IC 5: 5000 mg/L /7 d; Bacterial toxicity: Ps.putida EC 5: 6500 mg/L /16

h; Protozoa: E.sulcatum EC 5: 65 mg/L /72 h.

Further ecologic data:

BOD 5: 0.93-1.67 g/g; COD: 1.99 g/g; TOD: 2.10 g/g; BOD 74 % from TOD /5 d; COD 90 % from TOD;

Further Data: No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: TRANSPORTATION INFORMATION

Land (ADR/RID): Sea (IMDG): Air (ICAO/IATA):

UN No.: 1170 1170 1170

Proper Shipping Name: Ethanol solution Ethanol solution Ethanol solution

Class (Sub Risk): 3 3 3 **Packing Group:** Ш Ш Ш

SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: Not applicable R-phrases: 10: Flammable.

S-phrases: 16: Keep away from sources of ignition - No smoking.

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3 Revision Information Legend

NA: Not Applicable NA **Revision Date:** 2012-05-25 ND: Not Determined

Supersedes edition of: 2009-06-10

Reason for revision: Section 14 Updated

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.