



# Safety Data Sheet

According to Regulation (EC) No. 1907/2006  
 OSHA Regulation 29 CFR 1910.1200  
 Canadian Regulation SOR/88-66

**Revision Date:** 2013-07-02  
**Reason for Revision:** Regulation (EC) No. 1272/2008 Compliance

**SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY**

**Product Name:** HI 70641 Electrode Cleaning Solution for Food Processing and Preparation  
**Additional Product Codes:** HI 70641L  
 HI 70641M

**Application:** Cleans and Disinfects Electrodes of Milk 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)  
 +1-401-766-4260 (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**

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.  
 Non-hazardous product as specified in OSHA Regulation 29 CFR 1910.1200.  
 Non-hazardous product as specified in Canadian Regulation SOR/88-66.  
 Non-hazardous product as specified in Regulation (EC) 1272/2008.

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

<b>Component:</b>	<b>EC No:</b>	<b>CAS No:</b>	<b>Hazard Class:</b>	<b>Phrases:</b>	<b>Concentration:</b>
Chloroform	200-663-8	67-66-3	Acute Tox. 4 Carc. 2 STOT RE 2 Skin Irrit. 2 Xn, Xi, Carc. Cat. 3	H302, H315, H351, H373 R: 22-38-40-48/20/22	> 0.1 % - < 1.0 %
Ethyl alcohol	200-578-6	64-17-5	Flam. Liq. 2	H225 R: 11	> 1% - < 5%

**SECTION 4: FIRST AID MEASURES**

**After Inhalation:** Remove to fresh air. Call a physician if breathing becomes difficult.

**After Skin Contact:** Wash affected area with water and soap.

**After Eye Contact:** Rinse out with plenty of water for at least 15 minutes. If pain persists, summon medical advice.

**After Swallowing:** Wash out mouth with plenty of water, provided person is conscious. Obtain medical attention if feeling unwell.

**General Information:** Not available

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**  
 Water Spray, Foam, Dry Powder, Carbon Dioxide

**Special Risks:**  
 Non-combustible.

**Special Protective Equipment:**  
 Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

**Additional Information:**  
 Contain escaping vapors with water.



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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

***Personal Precautions:***

None

***Environmental Precautions:***

None

***Additional Notes:***

None

### **SECTION 7: HANDLING AND STORAGE**

***Handling:***

No restrictions

***Storage:***

Keep container closed and protected from direct sunlight. Store at room temperature (+15°C to +25°C).

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**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

<i>Type</i>	<i>Value</i>	<i>Source</i>	<i>Type</i>	<i>Value</i>	<i>Source</i>
<b>Chloroform</b>					
TWA (8hr)	10 mg/m <sup>3</sup>	Belgium	TWA (8hr)	49 mg/m <sup>3</sup>	Canada (Ontario)
TWA (8hr)	24.4 mg/m <sup>3</sup>	Canada (Quebec)	TWA (8hr)	10 mg/m <sup>3</sup>	France
TWA (8hr)	2.5 mg/m <sup>3</sup>	Germany	TWA (8hr)	50 mg/m <sup>3</sup>	Greece
TWA (8hr)	10 mg/m <sup>3</sup>	Hungary	TWA (8hr)	10 mg/m <sup>3</sup>	Italy
TWA (8hr)	5 mg/m <sup>3</sup>	Netherlands	TWA (8hr)	8 mg/m <sup>3</sup>	Poland
TWA (8hr)	10 ppm	Portugal	TWA (8hr)	10 mg/m <sup>3</sup>	Romania
TWA (8hr)	10 mg/m <sup>3</sup>	Spain	TWA (8hr)	9.9 mg/m <sup>3</sup>	UK
TWA (8hr)	10 ppm	USA (ACGIH)	TWA (8hr)	50 ppm	USA (OSHA)
<b>Ethanol</b>					
TWA (8hr)	1907 mg/m <sup>3</sup>	Belgium	TWA (8hr)	1900 mg/m <sup>3</sup>	Canada (Ontario)
TWA (8hr)	1880 mg/m <sup>3</sup>	Canada (Quebec)	TWA (8hr)	1900 mg/m <sup>3</sup>	France
TWA (8hr)	960 mg/m <sup>3</sup>	Germany	TWA (8hr)	1900 mg/m <sup>3</sup>	Greece
TWA (8hr)	1900 mg/m <sup>3</sup>	Hungary	TWA (8hr)	260 mg/m <sup>3</sup>	Netherlands
TWA (8hr)	1900 mg/m <sup>3</sup>	Poland	TWA (8hr)	1000 ppm	Portugal
TWA (8hr)	1900 mg/m <sup>3</sup>	Romania	TWA (8hr)	1910 mg/m <sup>3</sup>	Spain
TWA (8hr)	1920 mg/m <sup>3</sup>	UK	TWA (8hr)	1000 ppm	USA (ACGIH)
TWA (8hr)	1000 ppm	USA (OSHA)			

**Engineering:**

Maintain general industrial hygiene practice.

**Personal Protective Equipment:**

As appropriate to quantity handled.

**Respiratory Protection:**

Required when vapors/aerosols are generated.

**Protective Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Change contaminated clothing. Wash hands after working with substance.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

<b>Appearance:</b> Colorless liquid	<b>Odor:</b> Odorless	<b>Density at 20°C:</b> ~ 1 g/cm <sup>3</sup>
<b>Melting Point:</b> NA	<b>Boiling Point:</b> ND	<b>Solubility:</b> Soluble
<b>pH at 20°C:</b> 6.95	<b>Explosion Limit:</b> NA	<b>Flash Point:</b> NA
<b>Thermal Decomp.:</b> NA		

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### **SECTION 10: STABILITY AND REACTIVITY**

**Conditions to be Avoided:**

Strong Heating (above boiling point). Stable in the recommended storage conditions.

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

The generally known reaction partners of water

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Product Toxicity**

Quantitative data on the toxicity of this product is not available.

**Potential Health Effects:**

**Further Data:** Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances, when the product is handled appropriately. The product should be handled with the usual care when dealing with chemicals.

**Component Toxicity**

**Acute Toxicity:**

**Chloroform**

**LC50:** Inhalation - Rat - 47702 mg/m<sup>3</sup>

**LD50:** Oral - Rat - 695 mg/kg

**Ethanol**

**LD50:** Oral - Rat - 7060 mg/kg

**Additional Data:**

Not Available

**Chronic Toxicity:**

**Chloroform**

NTP: Reasonably anticipated to be carcinogenic to humans

IARC Group 2B: Possibly carcinogenic to humans

### **SECTION 12: ECOLOGICAL INFORMATION**

Quantitative data on the ecological effect of this product is not available.

**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:** Can be safely disposed of as ordinary refuse.

### **SECTION 14: TRANSPORTATION INFORMATION**

**Land:**

Not subject to transport regulations

**Sea:**

Not subject to transport regulations

**Air:**

Not subject to transport regulations

### **SECTION 15: REGULATORY INFORMATION**

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.

Complies with European Council Directives 67/548/EEC and 1999/45/EC.

Complies with OSHA Regulation 29 CFR 1910.1200.

Complies with Canadian Regulation SOR/88-66

**Safety Data Sheet**According to Regulation (EC) No. 1907/2006  
OSHA Regulation 29 CFR 1910.1200  
Canadian Regulation SOR/88-66**SECTION 16: OTHER INFORMATION*****Text of phrases under Section 3***

R11: Highly flammable.  
R22: Harmful if swallowed.  
R38: Irritating to skin.  
R40: Limited evidence of a carcinogenic effect.  
R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H351: Suspected of causing cancer.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H225: Highly flammable liquid and vapour.

***Revision Information***

**Revision Date:** 2013-07-02  
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Compliance

***Legend***

NA: Not Applicable  
ND: Not Determined

**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.**