

WILEX Inc. 100 Acorn Park Drive, 6 <sup>th</sup> Floor Cambridge, MA 02140 USA	<b>Emergency Number (CHEMTREC):</b> Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527 3887 <b>Technical Information:</b> +1-617-492-3900 x502
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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** CA IX ELISA

**Product Number:** 06490025

**Date Prepared:** Oct/13/2011

**Revision Number:** 3

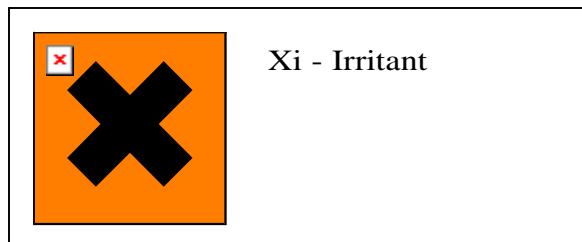
## 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains several components. Please refer to the individual Safety Data Sheets for the components listed below.

<i>Component Name</i>	<i>Product Number</i>
CA IX Microtiter Plate	31-7010
CA IX Sample Diluent	31-7020
CA IX Standards	31-7025
CA IX Detector Antibody	31-7030
CA IX Conjugate Diluent	31-7040
CA IX Conjugate Concentrate	31-7050
CA IX Platewash Concentrate	31-7090
CA IX Stop Solution	31-7080
CA IX Substrate	31-7055

Products may contain components which require reporting under SARA Title III Section 313 (40 CFR 372). See applicable component MSDS.

**EU Classification (1999/45/EC):**



**EU Risk and Safety Phrases: R36/38, S26, S36/37/39**

## 14. TRANSPORT INFORMATION

**Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, n.o.s.

**Technical Name:** (Sulphuric Acid Solution)

**UN Number:** UN3264

**Hazard Class and Packaging Group:** 8, III





**Label(s):** Corrosive

**Packing Instruction (Passenger Aircraft):** IATA 818 (5L)

**Packing Instruction (Cargo Aircraft):** IATA 820 (60L)

**Shipping Container Type:** 4G Box

**Sales Unit:** 1 kit.

HMIS Hazard Rating	
 Health:	2
 Fire:	0
 Reactivity:	0
 Personal	0
Protection:	C
	4 Severe Hazard
	3 Serious Hazard
	2 Moderate Hazard
	1 Slight Hazard
	0 Minimal Hazard
	* An asterisk indicates significant chronic health effects

Prepared by: Regulatory Affairs Department of WILEX Inc.

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USA

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**Technical Information:**  
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## **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product Name:** CA IX Microtiter Plate

**Product Number:** 31-7010

**Date Prepared:** Sept/29/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Pursuant to United States OSHA Regulations 29 CFR Part 1910.1200, This Product Is Not Considered To Contain Hazardous Materials.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

## **3. HAZARDS IDENTIFICATION**

**Man:** None determined.

**Environment:** None determined.

## **4. FIRST AID MEASURES**

**Emergency First Aid Procedures:**

**Inhalation, Skin Contact and Eye Contact:** Not considered health risks.

**Ingestion:** If the patient is conscious, rinse out mouth with water and have the patient drink a glass of water or milk to dilute the material. Obtain medical attention.

## **5. FIRE-FIGHTING MEASURES**

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** None determined.

**Unusual Fire and Explosion Hazards:** None determined.

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**6. ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:** Pick up and place in a disposal container.

**7. HANDLING AND STORAGE**

Store at temperatures and conditions as indicated on the product label. Avoid contact with the eyes, skin and clothing.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory latex or rubber gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is suggested.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and odor:** Plastic plates precoated with dried buffer.

**pH:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** N/A

**Boiling Point (F):** N/A

**Melting Point (F):** N/A

**Vapor Pressure:** N/A

**Evaporation Rate:** N/A

**Solubility in Water:** Not soluble

**Flash Point (Method Used):** None

**Flammable Limits:** LEL: Not Applicable UEL: Not Applicable

N/A = Not Applicable N/D = Not Determined

**10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** Not Determined

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**Hazardous Decomposition Products:** Not Determined

**Hazardous Polymerization:** Will Not Occur

## **11. TOXICOLOGICAL INFORMATION**

**Chronic Effects of Overexposure:** None currently known.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

**Acute Toxicity:**

**Inhalation:** Inhalation is not a potential route of exposure.

**Ingestion:** Swallowing may cause gastrointestinal irritation.

**Skin Contact:** Not expected to cause adverse effects.

**Eye Contact:** Not expected to cause adverse effects.

**Acute Toxicity Values:** Not applicable

## **12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined.

## **13. DISPOSAL CONSIDERATIONS**

**Primary Container Type:** The product container is a foil pouch.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

## **14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** Not applicable

**Primary Container Type:** The product container is a foil pouch.

**Sales Unit:** 1 pouches per kit.

## 15. REGULATORY INFORMATION


**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:** Not applicable

**Canadian WHMIS Classification:** Not a controlled product.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

## 16. OTHER INFORMATION

HMIS Hazard Rating	
 <p>Health: 1 Fire: 0 Reactivity: 0 Personal Protection: B</p>	<p>4 Severe Hazard 3 Serious Hazard 2 Moderate Hazard 1 Slight Hazard 0 Minimal Hazard</p> <p>* An asterisk indicates significant chronic health effects</p>

Prepared by: Regulatory Affairs Department of WILEX Inc.

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** CA IX Sample Diluent

**Product Number:** 31-7020

**Date Prepared:** Oct/12/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>CAS-No./EINECS-No.</i>	<i>Chemical Name</i>	<i>Amount</i>	<i>EU Classification (67/548/EEC):</i>
26628-22-8 / 247-852-1	Sodium Azide	0.09%	N, T+, R28, R32, R50/53

See Section 16 for further information on EU Classification.

### 3. HAZARDS IDENTIFICATION

**Man:** May be harmful by ingestion. May cause irritation.

**Environment:** This product contains 0.09% sodium azide which is toxic to fish.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

### 4. FIRST AID MEASURES

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).

**While awaiting the physician or transport to the ER:**

**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Get immediate medical attention.

**Skin Contact:** Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Wash contaminated clothing before re-use.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transport to hospital to see an ophthalmologist.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Wear chemical resistant rubber gloves and laboratory apron. Take up with absorbent material and place in a suitable container. Wipe up area with a damp paper towel and discard.

## 7. HANDLING AND STORAGE

Store at temperatures and conditions as indicated on the product label.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Chemical Name</i>	<i>Exposure Limit(s)</i>
Sodium Azide	0.29 mg/m <sup>3</sup> TLV-Ceiling

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory chemical rubber or latex gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Clear, colorless to yellow, aqueous solution with no odor.

**pH:** 7.0

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Boiling Point (F):** N/D

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**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** None

**Flammable Limits:** LEL: Not Applicable UEL: Not Applicable

N/A = Not Applicable N/D = Not Determined

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** Avoid contact with metals (aluminum, mercury, copper, lead, zinc) and acids.

**Hazardous Decomposition Products:** Sodium azide can react with heavy metals to form explosive azides.

**Hazardous Polymerization:** Will Not Occur

## 11. TOXICOLOGICAL INFORMATION

**Chronic Effects of Overexposure:** None currently known.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

### Acute Toxicity:

**Inhalation:** Inhalation of mists may cause respiratory irritation and possible systemic effects similar to ingestion.

**Ingestion:** Ingestion of sodium azide has been reported to cause shortness of breath, nausea, vomiting, restlessness, diarrhea, lowering of blood pressure (hypotension), and collapse. Rated highly toxic in animals.

**Skin Contact:** May cause mild irritation. Prolonged and extensive skin contact may result in absorption with systemic symptoms similar to ingestion.

**Eye Contact:** May cause irritation.

**Acute Toxicity Values:** Sodium Azide: LD50 oral rat: 27 mg/kg; LD50 dermal rabbit: 20 mg/kg

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**12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined. The LC50 for sodium azide in *Daphnia Pulex* is reported to be 4.2 mg/L/96 hr @ 15°C and in Rainbow Trout is reported to be 0.8-1.6 mg/L/96 hr @ 13°C, Wt 1.4 G. This product contains 0.6% of a surfactant, Triton X-100 which has a reported TL50 for bluegill sunfish of 12 mg/L/96 hr static.

**13. DISPOSAL CONSIDERATIONS**

**Primary Container Type:** The product container is HD polyethylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

**14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** 100 mL

**Primary Container Type:** 125 mL Plastic, HD polyethylene

**Sales Unit:** 1 Bottles / kit

**15. REGULATORY INFORMATION**





**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:** Not Hazardous

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

### 16. OTHER INFORMATION

HMIS Hazard Rating		
 Health:	1	4 Severe Hazard
 Fire:	0	3 Serious Hazard
 Reactivity:	0	2 Moderate Hazard
 Personal Protection:	B	1 Slight Hazard
		0 Minimal Hazard
		* An asterisk indicates significant chronic health effects

#### EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

N - Dangerous for the environment

T+ - Very toxic

R28 - Very toxic if swallowed.

R32 - Contact with acids liberates very toxic gas.

R50/53 - Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

If substantial amounts of reagents containing Sodium Azide are disposed of in plumbing systems, Sodium Azide may build up and form metal azides with copper or lead. This may produce a potential explosion hazard. See product insert or "Safety Management No. CDC-22 (United States Center for Disease Control) Decontamination of Laboratory Sink Drains to remove Azide Salts".

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** CA IX Standards  
**Product Number:** 31-7025-1/6  
**Date Prepared:** Oct/12/2011  
**Revision Number:** 3  
**Recommended Use:** In vitro diagnostic reagent

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>CAS-No./EINECS-No.</i>	<i>Chemical Name</i>	<i>Amount</i>	<i>EU Classification (67/548/EEC):</i>
26628-22-8 / 247-852-1	Sodium Azide	0.09%	N, T+, R28, R32, R50/53

See Section 16 for further information on EU Classification.

## 3. HAZARDS IDENTIFICATION

**Man:** May be harmful by ingestion. May cause irritation.  
**Environment:** This product contains 0.09% sodium azide which is toxic to fish.  
**EU Classification (1999/45/EC):** Not applicable  
**EU Risk and Safety Phrases:** None

## 4. FIRST AID MEASURES

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).  
**While awaiting the physician or transport to the ER:**  
**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
**Ingestion:** If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Get immediate medical attention.

**Skin Contact:** Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Wash contaminated clothing before re-use.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transport to hospital to see an ophthalmologist.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Wear chemical resistant rubber gloves and laboratory apron. Take up with absorbent material and place in a suitable container. Wipe up area with a damp paper towel and discard.

## 7. HANDLING AND STORAGE

Store at temperatures and conditions as indicated on the product label.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Chemical Name</i>	<i>Exposure Limit(s)</i>
Sodium Azide	0.29 mg/m <sup>3</sup> TLV-Ceiling

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory chemical rubber or latex gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Clear, colorless to yellow, aqueous solution with no odor.

**pH:** 7.0

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Boiling Point (F):** N/D

**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** None

**Flammable Limits:** LEL: Not Applicable UEL: Not Applicable

N/A = Not Applicable N/D = Not Determined

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** Avoid contact with metals (aluminum, mercury, copper, lead, zinc) and acids.

**Hazardous Decomposition Products:** Sodium azide can react with heavy metals to form explosive azides.

**Hazardous Polymerization:** Will Not Occur

## 11. TOXICOLOGICAL INFORMATION

**Chronic Effects of Overexposure:** None currently known.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

### Acute Toxicity:

**Inhalation:** Inhalation of mists may cause respiratory irritation and possible systemic effects similar to ingestion.

**Ingestion:** Ingestion of sodium azide has been reported to cause shortness of breath, nausea, vomiting, restlessness, diarrhea, lowering of blood pressure (hypotension), and collapse. Rated highly toxic in animals.

**Skin Contact:** May cause mild irritation. Prolonged and extensive skin contact may result in absorption with systemic symptoms similar to ingestion.

**Eye Contact:** May cause irritation.

**Acute Toxicity Values:** Sodium Azide: LD50 oral rat: 27 mg/kg; LD50 dermal rabbit: 20 mg/kg

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**12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined. The LC50 for sodium azide in *Daphnia Pulex* is reported to be 4.2 mg/L/96 hr @ 15°C and in Rainbow Trout is reported to be 0.8-1.6 mg/L/96 hr @ 13°C, Wt 1.4 G. This product contains 0.6% of a surfactant, Triton X-100 which has a reported TL50 for bluegill sunfish of 12 mg/L/96 hr static.

**13. DISPOSAL CONSIDERATIONS**

**Primary Container Type:** The product container is HD polyethylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

**14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** 1 mL

**Primary Container Type:** 4 mL Plastic, HD polyethylene

**Sales Unit:** 6 Bottles / kit

**15. REGULATORY INFORMATION**













**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:** Not Hazardous

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

## 16. OTHER INFORMATION

HMIS Hazard Rating																									
<table border="0"> <tr> <td></td> <td>Health:</td> <td>1</td> <td>4 Severe Hazard</td> </tr> <tr> <td></td> <td>Fire:</td> <td>0</td> <td>3 Serious Hazard</td> </tr> <tr> <td></td> <td>Reactivity:</td> <td>0</td> <td>2 Moderate Hazard</td> </tr> <tr> <td></td> <td>Personal</td> <td>B</td> <td>1 Slight Hazard</td> </tr> <tr> <td></td> <td>Protection:</td> <td></td> <td>0 Minimal Hazard</td> </tr> <tr> <td></td> <td></td> <td></td> <td>* An asterisk indicates significant chronic health effects</td> </tr> </table>		Health:	1	4 Severe Hazard		Fire:	0	3 Serious Hazard		Reactivity:	0	2 Moderate Hazard		Personal	B	1 Slight Hazard		Protection:		0 Minimal Hazard				* An asterisk indicates significant chronic health effects	
	Health:	1	4 Severe Hazard																						
	Fire:	0	3 Serious Hazard																						
	Reactivity:	0	2 Moderate Hazard																						
	Personal	B	1 Slight Hazard																						
	Protection:		0 Minimal Hazard																						
			* An asterisk indicates significant chronic health effects																						

### EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

N - Dangerous for the environment

T+ - Very toxic

R28 - Very toxic if swallowed.

R32 - Contact with acids liberates very toxic gas.

R50/53 - Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

If substantial amounts of reagents containing Sodium Azide are disposed of in plumbing systems, Sodium Azide may build up and form metal azides with copper or lead. This may produce a potential explosion hazard. See product insert or "Safety Management No. CDC-22 (United States Center for Disease Control) Decontamination of Laboratory Sink Drains to remove Azide Salts".

Prepared by: Regulatory Affairs Department of WILEX Inc.

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** CA IX Detector Antibody

**Product Number:** 31-7030

**Date Prepared:** Oct/12/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>CAS-No./EINECS-No.</i>	<i>Chemical Name</i>	<i>Amount</i>	<i>EU Classification (67/548/EEC):</i>
26628-22-8 / 247-852-1	Sodium Azide	0.098%	N, T+, R28, R32, R50/53

See Section 16 for further information on EU Classification.

## 3. HAZARDS IDENTIFICATION

**Man:** May be harmful by ingestion. May cause irritation.

**Environment:** This product contains 0.098% sodium azide which is toxic to fish.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

## 4. FIRST AID MEASURES

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).

**While awaiting the physician or transport to the ER:**

**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Get immediate medical attention.

**Skin Contact:** Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Wash contaminated clothing before re-use.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transport to hospital to see an ophthalmologist.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Wear chemical resistant rubber gloves and laboratory apron. Take up with absorbent material and place in a suitable container. Wipe up area with a damp paper towel and discard.

## 7. HANDLING AND STORAGE

Store at temperatures and conditions as indicated on the product label.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Chemical Name</i>	<i>Exposure Limit(s)</i>
Sodium Azide	0.29 mg/m <sup>3</sup> TLV-Ceiling

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory chemical rubber or latex gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Clear, colorless to yellow, aqueous solution with no odor.

**pH:** 7.0

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Boiling Point (F):** N/D

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**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** None

**Flammable Limits:** LEL: Not Applicable UEL: Not Applicable

N/A = Not Applicable N/D = Not Determined

## **10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** Avoid contact with metals (aluminum, mercury, copper, lead, zinc) and acids.

**Hazardous Decomposition Products:** Sodium azide can react with heavy metals to form explosive azides.

**Hazardous Polymerization:** Will Not Occur

## **11. TOXICOLOGICAL INFORMATION**

**Chronic Effects of Overexposure:** None currently known.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

### **Acute Toxicity:**

**Inhalation:** Inhalation of mists may cause respiratory irritation and possible systemic effects similar to ingestion.

**Ingestion:** Ingestion of sodium azide has been reported to cause shortness of breath, nausea, vomiting, restlessness, diarrhea, lowering of blood pressure (hypotension), and collapse. Rated highly toxic in animals.

**Skin Contact:** May cause mild irritation. Prolonged and extensive skin contact may result in absorption with systemic symptoms similar to ingestion.

**Eye Contact:** May cause irritation.

**Acute Toxicity Values:** Sodium Azide: LD50 oral rat: 27 mg/kg; LD50 dermal rabbit: 20 mg/kg

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**12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined. The LC50 for sodium azide in *Daphnia Pulex* is reported to be 4.2 mg/L/96 hr @ 15°C and in Rainbow Trout is reported to be 0.8-1.6 mg/L/96 hr @ 13°C, Wt 1.4 G.

**13. DISPOSAL CONSIDERATIONS**

**Primary Container Type:** The product container is HD polyethylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

**14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** 12 mL

**Primary Container Type:** 15 mL Plastic, HD polyethylene

**Sales Unit:** 1 Bottles / kit

**15. REGULATORY INFORMATION**













**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:** Not Hazardous

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

### 16. OTHER INFORMATION

HMIS Hazard Rating																					
<table border="0"> <tr> <td></td> <td>Health:</td> <td>1</td> <td>4 Severe Hazard</td> </tr> <tr> <td></td> <td>Fire:</td> <td>0</td> <td>3 Serious Hazard</td> </tr> <tr> <td></td> <td>Reactivity:</td> <td>0</td> <td>2 Moderate Hazard</td> </tr> <tr> <td></td> <td>Personal</td> <td>B</td> <td>1 Slight Hazard</td> </tr> <tr> <td></td> <td>Protection:</td> <td></td> <td>0 Minimal Hazard</td> </tr> </table>		Health:	1	4 Severe Hazard		Fire:	0	3 Serious Hazard		Reactivity:	0	2 Moderate Hazard		Personal	B	1 Slight Hazard		Protection:		0 Minimal Hazard	<p>* An asterisk indicates significant chronic health effects</p>
	Health:	1	4 Severe Hazard																		
	Fire:	0	3 Serious Hazard																		
	Reactivity:	0	2 Moderate Hazard																		
	Personal	B	1 Slight Hazard																		
	Protection:		0 Minimal Hazard																		

#### EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

N - Dangerous for the environment

T+ - Very toxic

R28 - Very toxic if swallowed.

R32 - Contact with acids liberates very toxic gas.

R50/53 - Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

If substantial amounts of reagents containing Sodium Azide are disposed of in plumbing systems, Sodium Azide may build up and form metal azides with copper or lead. This may produce a potential explosion hazard. See product insert or "Safety Management No. CDC-22 (United States Center for Disease Control) Decontamination of Laboratory Sink Drains to remove Azide Salts".

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** CA IX Conjugate Diluent

**Product Number:** 31-7040

**Date Prepared:** Oct/12/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>CAS-No./EINECS-No.</i>	<i>Chemical Name</i>	<i>Amount</i>	<i>EU Classification (67/548/EEC):</i>
79-07-2 / 201-174-2	2-Chloroacetamide	<0.1%	T, Xi, R25, R43, R62

See Section 16 for further information on EU Classification.

### 3. HAZARDS IDENTIFICATION

**Man:** Contact may cause mild irritation and allergic reaction (sensitization).

**Environment:** None determined.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None.

### 4. FIRST AID MEASURES

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).

**While awaiting the physician or transport to the ER:**

**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Transport to hospital for further medical attention.

**Ingestion:** If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Get prompt medical attention.

**Skin Contact:** Remove any contaminated clothing. Wash off with soap and water. Wash contaminated clothing before re-use. Get medical attention if symptoms develop.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transport to hospital for further medical attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Use personal protective equipment. Take up with absorbent material and place in a suitable container. Wash spill area with water.

## 7. HANDLING AND STORAGE

Store at temperatures and conditions as indicated on the product label.

Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Chemical Name</i>	<i>Exposure Limit(s)</i>
2-Chloroacetamide	None Established

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory chemical rubber or latex gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Clear, colorless to yellow, aqueous solution with no odor.

**pH:** 7.0

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Boiling Point (F):** N/D

**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** N/D

**Flammable Limits:** LEL: Not Determined UEL: Not Determined

N/A = Not Applicable N/D = Not Determined

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** None determined.

**Hazardous Decomposition Products:** None determined.

**Hazardous Polymerization:** Will Not Occur

## 11. TOXICOLOGICAL INFORMATION

**Chronic Effects of Overexposure:** Prolonged skin contact may cause sensitization dermatitis.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

**Acute Toxicity:**

**Inhalation:** Inhalation of mists may cause minor respiratory irritation.

**Ingestion:** May cause gastrointestinal irritation, nausea and vomiting.

**Skin Contact:** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation.

**Eye Contact:** May cause irritation.

**Acute Toxicity Values:** 2-Chloroacetamide: LD50 oral rat: 138 mg/kg; LD50 oral mouse: 155 mg/kg; LD50 oral rabbit: 122 mg/kg

## 12. ECOLOGICAL INFORMATION

Ecological effects of this mixture have not been determined.

This product also contains 0.05% of a non-ionic surfactant (Tween 20).

### 13. DISPOSAL CONSIDERATIONS

**Primary Container Type:** The product container is HD polyethylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

### 14. TRANSPORT INFORMATION

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** 13 mL

**Primary Container Type:** 15 mL Plastic, HD polyethylene

**Sales Unit:** 1 bottle/kit.

### 15. REGULATORY INFORMATION





**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:** Not Hazardous

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None.

### 16. OTHER INFORMATION

HMIS Hazard Rating		
 Health:	1	4 Severe Hazard
 Fire:	0	3 Serious Hazard
 Reactivity:	0	2 Moderate Hazard
 Personal	0	1 Slight Hazard
Protection:	B	0 Minimal Hazard
		* An asterisk indicates significant chronic health effects

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**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

T - Toxic

Xi - Irritant

R25 - Toxic if swallowed.

R43 - May cause sensitization by skin contact.

R62 - Possible risk of impaired fertility.

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** CA IX Conjugate Concentrate

**Product Number:** 31-7050

**Date Prepared:** Oct/12/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>CAS-No./EINECS-No.</i>	<i>Chemical Name</i>	<i>Amount</i>	<i>EU Classification (67/548/EEC):</i>
79-07-2 / 201-174-2	2-Chloroacetamide	<0.1%	T, Xi, R25, R43, R62

See Section 16 for further information on EU Classification.

### 3. HAZARDS IDENTIFICATION

**Man:** Contact may cause mild irritation and allergic reaction (sensitization).

**Environment:** None determined.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None.

### 4. FIRST AID MEASURES

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).

**While awaiting the physician or transport to the ER:**

**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Transport to hospital for further medical attention.

**Ingestion:** If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Get prompt medical attention.

**Skin Contact:** Remove any contaminated clothing. Wash off with soap and water. Wash contaminated clothing before re-use. Get medical attention if symptoms develop.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transport to hospital for further medical attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Use personal protective equipment. Take up with absorbent material and place in a suitable container. Wash spill area with water.

## 7. HANDLING AND STORAGE

Store at temperatures and conditions as indicated on the product label.

Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Chemical Name</i>	<i>Exposure Limit(s)</i>
2-Chloroacetamide	None Established

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory chemical rubber or latex gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Clear, colorless to yellow, aqueous solution with no odor.

**pH:** 7.0

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Boiling Point (F):** N/D

**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** N/D

**Flammable Limits:** LEL: Not Determined UEL: Not Determined

N/A = Not Applicable N/D = Not Determined

## **10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** None determined.

**Hazardous Decomposition Products:** None determined.

**Hazardous Polymerization:** Will Not Occur

## **11. TOXICOLOGICAL INFORMATION**

**Chronic Effects of Overexposure:** Prolonged skin contact may cause sensitization dermatitis.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

**Acute Toxicity:**

**Inhalation:** Inhalation of mists may cause minor respiratory irritation.

**Ingestion:** May cause gastrointestinal irritation, nausea and vomiting.

**Skin Contact:** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation.

**Eye Contact:** May cause irritation.

**Acute Toxicity Values:** 2-Chloroacetamide: LD50 oral rat: 138 mg/kg; LD50 oral mouse: 155 mg/kg; LD50 oral rabbit: 122 mg/kg

## **12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined.

This product also contains 0.05% of a non-ionic surfactant (Tween 20).

### 13. DISPOSAL CONSIDERATIONS

**Primary Container Type:** The product container is polypropylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

### 14. TRANSPORT INFORMATION

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** 0.4 mL

**Primary Container Type:** 0.5 mL polypropylene plastic

**Sales Unit:** 1 bottle/kit.

### 15. REGULATORY INFORMATION





**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:** Not Hazardous

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None.

### 16. OTHER INFORMATION

HMIS Hazard Rating	
 Health:	1
 Fire:	0
 Reactivity:	0
 Personal	B
Protection:	B

4 Severe Hazard  
 3 Serious Hazard  
 2 Moderate Hazard  
 1 Slight Hazard  
 0 Minimal Hazard  
 \* An asterisk indicates significant chronic health effects

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**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

T - Toxic

Xi - Irritant

R25 - Toxic if swallowed.

R43 - May cause sensitization by skin contact.

R62 - Possible risk of impaired fertility.

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## **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product Name:** CA IX Substrate

**Product Number:** 31-7055

**Date Prepared:** Oct/12/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Pursuant to United States OSHA Regulations 29 CFR Part 1910.1200, This Product Is Not Considered To Contain Hazardous Materials.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

## **3. HAZARDS IDENTIFICATION**

**Man:** None determined.

**Environment:** None determined.

## **4. FIRST AID MEASURES**

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).

**While awaiting the physician or transport to the ER:**

**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If the patient is conscious, rinse out mouth with water and have the patient drink a glass of water or milk to dilute the material. Transport to hospital for further medical attention.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before re-use.

**Eye Contact:** In case of eye contact immediately flush eyes with copious amounts of water for at least 15-20 minutes. Transport to hospital for further medical attention.

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**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

**6. ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:** Take up with absorbent material and place in a suitable container. Wipe up area with a damp paper towel and discard.

**7. HANDLING AND STORAGE**

Store at temperatures and conditions as indicated on the product label. Avoid contact with the eyes, skin and clothing.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory latex or plastic gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is suggested.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and odor:** Clear, colorless, aqueous solution.

**pH:** 5.3

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Boiling Point (F):** N/D

**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** None

**Flammable Limits:** LEL: Not Applicable UEL: Not Applicable

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N/A = Not Applicable N/D = Not Determined

## **10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** Avoid strong acids and bases, strong oxidizing and reducing agents.

**Hazardous Decomposition Products:** None determined.

**Hazardous Polymerization:** Will Not Occur

## **11. TOXICOLOGICAL INFORMATION**

**Chronic Effects of Overexposure:** None currently known.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

**Acute Toxicity:**

**Inhalation:** Inhalation of mists may cause minor respiratory irritation.

**Ingestion:** Swallowing may cause gastrointestinal irritation.

**Skin Contact:** Contact may cause mild irritation, particularly on prolonged or repeated contact.

**Eye Contact:** May cause mild irritation.

**Acute Toxicity Values:** Not applicable

## **12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined.

## **13. DISPOSAL CONSIDERATIONS**

**Primary Container Type:** The product container is HD polyethylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

## **14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** 12 mL

**Primary Container Type:** 15 mL Plastic, HD polyethylene

**Sales Unit:** 1 Bottles / kit





## 15. REGULATORY INFORMATION

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

## 16. OTHER INFORMATION

HMIS Hazard Rating		
 Health:	0	4 Severe Hazard
 Fire:	0	3 Serious Hazard
 Reactivity:	0	2 Moderate Hazard
 Personal Protection:	B	1 Slight Hazard
		0 Minimal Hazard
		* An asterisk indicates significant chronic health effects

Prepared by: Regulatory Affairs Department of WILEX Inc.

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** CA IX Stop Solution

**Product Number:** 31-7080

**Date Prepared:** Oct/12/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>CAS-No./EINECS-No.</i>	<i>Chemical Name</i>	<i>Amount</i>	<i>EU Classification (67/548/EEC):</i>
7664-93-9 / 231-639-5	Sulfuric Acid	6.8%	C, R35

See Section 16 for further information on EU Classification.

### 3. HAZARDS IDENTIFICATION

**Man:** Causes severe irritation to the eyes and skin.

**Environment:** None determined.

**EU Classification (1999/45/EC):** Xi - Irritant

**EU Risk and Safety Phrases:** R36/38, S26, S36/37/39

### 4. FIRST AID MEASURES

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).

**While awaiting the physician or transport to the ER:**

**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Do not induce vomiting. Get immediate medical attention.

**Skin Contact:** Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before re-use.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transport to hospital for further medical attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Use personal protective equipment. Neutralize with soda ash or sodium bicarbonate. Take up with absorbent material and place in a suitable container. Wipe up area with a damp paper towel and discard.

## 7. HANDLING AND STORAGE

Store at temperatures and conditions as indicated on the product label. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Chemical Name</i>	<i>Exposure Limit(s)</i>
Sulfuric Acid	1 mg/m <sup>3</sup> PEL-TWA 0.2 mg/m <sup>3</sup> TLV-TWA (thoracic fraction)

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required under normal conditions of use.

**Protective Gloves:** Standard laboratory latex or plastic gloves.

**Eye Protection:** Chemical safety goggles and / or face shield recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is recommended. A safety shower and eye wash should be available in the immediate work area.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and odor:** Clear, colorless, aqueous solution.

**pH:** <2

**Specific Gravity (H<sub>2</sub>O=1):** 1

**Boiling Point (F):** N/D

**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** None

**Flammable Limits:** LEL: Not Applicable UEL: Not Applicable

N/A = Not Applicable N/D = Not Determined

**10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** Avoid strong bases, metals, carbides, chlorates, fulminates, and picrates.

**Hazardous Decomposition Products:** Thermal decomposition may yield sulfur oxides. Will react with most metals releasing flammable hydrogen gas.

**Hazardous Polymerization:** Will Not Occur

**11. TOXICOLOGICAL INFORMATION**

**Chronic Effects of Overexposure:** None currently known.

**Carcinogen or Suspected Carcinogen:** IARC and NTP list strong mineral acid mists containing sulfuric acid as a known human carcinogen (IARC Group 1).

**Medical Conditions Aggravated by Exposure:** None currently known.

**Acute Toxicity:**

**Inhalation:** Inhalation of mists may cause mucous membrane and respiratory irritation.

**Ingestion:** May cause mucous membrane and gastrointestinal burns with nausea, vomiting and cramps.

**Skin Contact:** May cause severe irritation.

**Eye Contact:** May cause severe irritation with possible chemical burns.

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**Acute Toxicity Values:** Sulfuric Acid: LD50 oral rat: 2140 mg/kg; LC50 inhalation mouse: 320 mg/ m<sup>3</sup>/2 hr

## **12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined.

## **13. DISPOSAL CONSIDERATIONS**

**Primary Container Type:** The product container is HD polyethylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

## **14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, n.o.s.

**Technical Name:** (Sulphuric Acid Solution)

**UN Number:** UN3264

**Hazard Class and Packaging Group:** 8, III

**Label(s):** Corrosive

**Packing Instruction (Passenger Aircraft):** IATA 818 (5 L)

**Packing Instruction (Cargo Aircraft):** IATA 820 (60 L)

**Unit Volume:** 12 mL

**Primary Container Type:** 15 mL Plastic, HD Polyethylene

**Sales Unit:** 1 bottle/kit.

## **15. REGULATORY INFORMATION**

**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:**

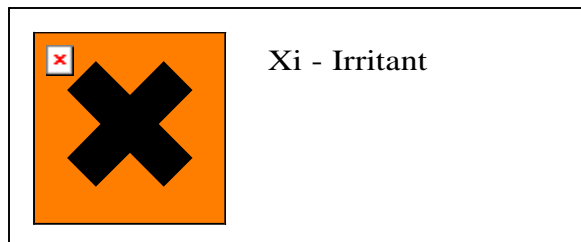
Acute Health Chronic Health

**SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372):** Sulfuric Acid, 6.8%

**California Proposition 65: This Product contains the Following Substances known to the State of California to cause Cancer:** Sulfuric acid 6.8% (in the form of strong mineral acid mists containing sulfuric acid)

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):**







**EU Risk and Safety Phrases:** R36/38 - Irritating to eyes and skin.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 16. OTHER INFORMATION

HMIS Hazard Rating		
 Health:	2	4 Severe Hazard
 Fire:	0	3 Serious Hazard
 Reactivity:	0	2 Moderate Hazard
 Personal	0	1 Slight Hazard
Protection:	C	0 Minimal Hazard
		* An asterisk indicates significant chronic health effects

**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

C - Corrosive

R35 - Causes severe burns.

Prepared by: Regulatory Affairs Department of WILEX Inc.

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WILEX Inc.  
100 Acorn Park Drive, 6<sup>th</sup> Floor  
Cambridge, MA 02140  
USA

**Emergency Number (CHEMTREC):**  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-527 3887  
**Technical Information:**  
+1-617-492-3900 x502

## **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product Name:** CA IX Platewash Concentrate

**Product Number:** 31-7090

**Date Prepared:** Oct/12/2011

**Revision Number:** 3

**Recommended Use:** In vitro diagnostic reagent

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Pursuant to United States OSHA Regulations 29 CFR Part 1910.1200, This Product Is Not Considered To Contain Hazardous Materials.

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

## **3. HAZARDS IDENTIFICATION**

**Man:** None determined.

**Environment:** None determined.

## **4. FIRST AID MEASURES**

**Emergency First Aid Procedures:** Call a physician immediately. Arrange for transport to the nearest ER (emergency room).

**While awaiting the physician or transport to the ER:**

**Inhalation:** If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Transport to hospital for further medical attention.

**Ingestion:** If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Get prompt medical attention.

**Skin Contact:** Remove any contaminated clothing. Wash off with soap and water. Wash contaminated clothing before re-use.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transport to hospital for further medical attention.

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**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media:** Use whatever is required for the surrounding area.

**Special Fire Fighting Procedures:** It is always best to wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** None determined.

**6. ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:** Use personal protective equipment. Take up with absorbent material and place in a suitable container. Wash spill area with water.

**7. HANDLING AND STORAGE**

Store at temperatures and conditions as indicated on the product label.

Avoid contact with the eyes, skin and clothing.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Ventilation:** Use general room ventilation.

**Respiratory Equipment:** None required.

**Protective Gloves:** Standard laboratory chemical rubber or latex gloves.

**Eye Protection:** Standard laboratory safety glasses recommended. Contact lenses should not be worn in the laboratory.

**Other Protective Equipment/Clothing:** A laboratory coat or apron is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and odor:** Clear, colorless, aqueous solution.

**pH:** 7.0

**Specific Gravity (H<sub>2</sub>O=1):** N/D

**Boiling Point (F):** N/D

**Melting Point (F):** N/A

**Vapor Pressure:** N/D

**Evaporation Rate:** N/D

**Solubility in Water:** Soluble

**Flash Point (Method Used):** N/D

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**Flammable Limits:** LEL: Not Determined UEL: Not Determined

N/A = Not Applicable N/D = Not Determined

## **10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** None determined.

**Substances to Avoid:** None determined.

**Hazardous Decomposition Products:** None determined.

**Hazardous Polymerization:** Will Not Occur

## **11. TOXICOLOGICAL INFORMATION**

**Chronic Effects of Overexposure:** None currently known.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated by Exposure:** None currently known.

**Acute Toxicity:**

**Inhalation:** Inhalation of mists may cause minor respiratory irritation.

**Ingestion:** Swallowing may cause gastrointestinal irritation.

**Skin Contact:** Contact may cause mild irritation.

**Eye Contact:** May cause mild irritation.

**Acute Toxicity Values:** Not applicable

## **12. ECOLOGICAL INFORMATION**

Ecological effects of this mixture have not been determined.

This product also contains 0.8% of a non-ionic surfactant (Tween 20).

## **13. DISPOSAL CONSIDERATIONS**

**Primary Container Type:** The product container is HD polyethylene.

**Waste Disposal Method:** Each disposal facility must determine proper disposal methods to comply with Local, State and Federal Environmental Regulations.

## **14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated

**Technical Name:**

**UN Number:** N/A

**Hazard Class and Packaging Group:** Not regulated

**Label(s):** N/A

**Packing Instruction (Passenger Aircraft):** N/A

**Packing Instruction (Cargo Aircraft):** N/A

**Unit Volume:** 100 mL

**Primary Container Type:** 125 mL Plastic, HD polyethylene

**Sales Unit:** 1 bottle/kit.

### 15. REGULATORY INFORMATION





**SARA 311/312: Hazard categories for SARA Section 311/312 Reporting:** Not applicable

**Canadian WHMIS Classification:** Medical Devices are Exempt from WHMIS

**EU Classification (1999/45/EC):** Not applicable

**EU Risk and Safety Phrases:** None

### 16. OTHER INFORMATION

HMIS Hazard Rating		
 Health:	1	4 Severe Hazard
 Fire:	0	3 Serious Hazard
 Reactivity:	0	2 Moderate Hazard
 Personal	0	1 Slight Hazard
	B	0 Minimal Hazard
		* An asterisk indicates significant chronic health effects

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