

## Material Safety Data Sheet

### **SECTION 1 – IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY**

**Product Name:** Total and Direct Bilirubin Kit – Bilirubin 0.2N Hydrochloric Acid  
**Product Number:** B2A102  
**Manufacturer/Supplier:** Advanced Instruments, Inc.  
Two Technology Way  
Norwood, MA 02062  
1-781-320-9000

**Origin:** USA

**Date of Issue:** 2009-02-13

**Chemical Identification(s):** Hydrochloric Acid (HCl)  
**Intended Use:** Bilirubin 0.2N Hydrochloric Acid for use with the Advanced Bilirubin Stat-Analyzer (Model BR2).

### **SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

**Component:**  
Hydrochloric Acid  
**CAS #:**  
7647-01-0  
**Synonyms:**  
Hydrochloride, muriatic acid, chlorohydric acid  
**Percent:**  
<1%

### **SECTION 3 – HAZARDS IDENTIFICATION**

#### **Health**

**Routes of Entry:**

Inhalation, ingestion, or skin contact.

**Health Hazards:**

Irritating on contact with skin, eyes, mucous membranes, or upper respiratory tract.

**Carcinogenicity:**

None indicated

**Symptoms of Exposure:**

None indicated

**Medical Conditions Aggravated by Exposure:**

None indicated

### **SECTION 4 – FIRST AID MEASURES**

**Emergency and First Aid Procedures:**

SEEK MEDICAL ASSISTANCE IN ALL CASES OF OVEREXPOSURE.

**Eyes:**

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**Skin:**

In case of contact, immediately wash skin with soap and copious amounts of water.

**Inhalation:**

If inhaled, remove to fresh air.

**Ingestion:**

If conscious, drink water and induce vomiting immediately as directed by medical personnel.

### **SECTION 5 – FIRE FIGHTING MEASURES**

**Flash Point (°F):**

Not available

**Flammable Limits:**

LEL: Not available

UEL: Not available

**Extinguishing Media:**

Water spray, carbon dioxide, dry chemical powder, or appropriate foam

**Fire Fighting Procedures:**

Wear self-contained breathing apparatus and protective clothing.

**Fire and Explosion Hazards:**

Not considered to be a fire or explosion hazard.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES****Spill Response:**

Wear suitable protective equipment listed under Section 8, Exposure Controls/Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if it can be done without risk. Clean up and place in closed container for proper disposal as described under, Section 13, Disposal Considerations. Comply with local, state, and country regulations on reporting releases. Refer to Section 15, Regulatory Information, for regulatory data.

**SECTION 7 – HANDLING AND STORAGE**

Keep container tightly closed. Store at controlled room temperature. Do not get in eyes, on skin, or on clothing.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION****Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:**

Adequate ventilation is required. Protective gloves must be worn to prevent skin contact (Neoprene or equivalent). Safety glasses with side shields must be worn at all times.

**Work/Hygienic Practices:**

Wash hands thoroughly after handling. Do not take internally. Eyewash and safety equipment should be readily available.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES****Appearance:**

Clear liquid

**Boiling Point:**

100°C (212°F)

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

1.0

**Melting Point (°C):**

0°C (32°F)

**Evaporation Rate (BuAc = 1):**

Essentially, the same as water.

**Vapor Pressure (mm Hg):**

Essentially, the same as water.

**Vapor Density (AIR = 1):**

Essentially, the same as water.

**Volatility:**

Not available

**Solubility in Water (%):**

Soluble

**SECTION 10 – STABILITY AND REACTIVITY****Stability:**

Stable

**Conditions to Avoid:**

Heat, water, steam, metal contact

**Materials to Avoid:**

Most metals, nitric acid, alkaline materials

**Hazardous Decomposition:**

Chlorine gas

**Hazardous Polymerization:**

Will not occur

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

### **Symptoms of Exposure:**

Ingestion is harmful and may be fatal. Irritating on contact with skin, eyes, mucous membranes, or upper respiratory tract.

### **Medical Conditions Aggravated by Exposure:**

None indicated.

### **Routes of Entry:**

Inhalation, ingestion, or skin contact.

### **Carcinogenicity:**

None indicated

### **Toxicity Data:**

None indicated

### **Toxicological Findings:**

None indicated

## **SECTION 12 – ECOLOGICAL INFORMATION**

Data not available

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

### **EPA Waste Numbers:**

Not available

### **Treatment:**

Specified Technology – Contact your local permitted waste disposal site (TSD) for permissible treatment sites.

ALWAYS CONTACT A PERMITTED WASTE DISPOSAL SITE (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND COUNTRY REGULATIONS.

## **SECTION 14 – TRANSPORTATION INFORMATION**

### **DOT Proper Shipping Name:**

Not regulated

### **DOT ID Number:**

Not regulated

## **SECTION 15 – REGULATORY INFORMATION**

### **European Information:**

Not available

### **Reviews, Standards, and Regulations:**

Not available

## **SECTION 16 – OTHER INFORMATION**

### **Comments:**

None

### **NFPA Hazard Ratings:**

Health: 0

Flammability: 0

Reactivity: 0

Special Hazards: 1

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