

## 1. Product and Company Identification

### Product Identifier

**Product Name:** CO2 Acid Reagent

**Product Code:** BK-472481D

**Recommended Use:** For the quantitative determination of tCO2 in serum or plasma.

### Company

Diamond Diagnostics Inc.  
333 Fiske Street  
Holliston, MA 01746

**Company Phone Number** 508-429-0450  
**Email** [support@diamonddiagnostics.com](mailto:support@diamonddiagnostics.com)

**Emergency Telephone No:** 508-429-0450

## 2. Hazards Identification

### GHS- Classification

**Classification** Corrosive, Skin Irritant, Eye Irritant



### Hazard Statements

H290 Maybe corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

### Precautionary Statements

P234 Keep in original container.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant to extinguish.  
P390 Absorb spillage to prevent material damage.  
P405 Store locked up.  
P406 Store in a corrosive resistant stainless container with a resistant inner liner.  
P501 Dispose of contents/container to an approved waste disposal plant.

## 3. Composition/Information on ingredients

Chemical Name	EC No.	Reach Reg. No.	CAS-No.	Weight %	Classification
Sulfuric Acid	231-639-5	01-2119458838-20-XXXX	7664-93-9	< 2%	Met. Corr. 1; Skin Corr. 1A; Eye Dam 1; H290, H314, H318

## 4. First Aid Measures

**Eye Contact** Flush affected area with copious amounts of water.

**Skin Contact** Flush affected area with copious amounts of water.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and afterwards drink plenty of water. Consult a physician.

**Notes to Physician** Treat symptomatically

## 5. Fire-Fighting Measures

**Flammable Properties** No information available

**Flash Point** No information available

**Suitable Extinguishing Media** Suitable for surrounding fire

**Hazardous Combustion Products** No information available

**Protective Equipment and Precautions for Firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental Release Measures

**Personnel Precautions** Use personnel protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Methods for Containment & Cleaning** Soak up with non-combustible absorbent material. Rinse affected area with copious amounts of water. Dispose of in accordance with applicable federal, state, and local laws and regulations.

**Environmental Precautions** Do not let product enter drains.

## 7. Handling and Storage

**Handling** Avoid inhaling, ingesting and contact with eyes and skin.

**Storage** Store as recommended on product label.

**Specific use** See Section 1 – Recommended Use

## 8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric Acid 7664-93-9	TWA 0.2 mg/m3	TWA 1 mg/m3	Not listed

**Engineering Measures** Showers  
Eye Wash Stations  
Ventilation Systems

### Personnel Protective Equipment

**Eye/Face Protection** Safety goggles with side-shields

**Skin Protection** Wear protective gloves/clothing

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced; NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required high airborne containment concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Complete suit protecting against chemicals, Flame resistant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environment Exposure** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and Chemical Properties

**Appearance** Clear Liquid

<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available
<b>pH</b>	1
<b>Melting Point</b>	No information available
<b>Freezing Point</b>	0°C
<b>Initial Boiling Point</b>	100 °C
<b>Flash Point</b>	No information available
<b>Evaporation Rate</b>	Slower than ether
<b>Flammability (solid, gas)</b>	No information available
<b>Upper/Lower flammability or explosive limits</b>	No information available
<b>Vapor pressure</b>	< 0.001 mmHg
<b>Vapor density</b>	No information available
<b>Relative density</b>	No information available
<b>Water Solubility</b>	Miscible
<b>Partition coefficient: (n-octanol/water)</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition Temperature °C</b>	No information available
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

## 10. Stability and Reactivity

<b>Reactivity</b>	No information available
<b>Chemical Stability</b>	Stable
<b>Incompatible Materials</b>	Metals, strong oxidizing agents, reducing agents, bases, organic materials
<b>Hazardous Decomposition Products</b>	Oxides of sulfur
<b>Hazardous Polymerization:</b>	Has not been reported
<b>Conditions to avoid:</b>	Avoid excess heat.
<b>Suggested Storage:</b>	Store as recommended on product label

## 11. Toxicological Information

<b>Acute Toxicity</b>	No information available
<b>Chronic Toxicity</b>	Long term exposure to sulfuric acid mist can result in teeth erosion, irritation of respiratory tract and gastrointestinal disturbances.
<b>Target Organ Effects</b>	No information available
<b>Carcinogenicity</b>	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.</p>

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

## 12. Ecological Information

**Ecotoxicity** Toxic to fish, daphnia and other aquatic invertebrates.

## 13. Disposal Considerations

**Waste Disposal Method** In accordance with applicable federal, state, and local laws and regulations.

**Contaminated Packaging** In accordance with applicable federal, state, and local laws and regulations.

## 14. Transport Information

**IATA** Not regulated

**DOR** Not regulated

## 15. Regulatory Information

**SARA 302 Components** The following components are subject to reporting levels established by SARA Title III, Section 302.  
CAS-No. Revision Date:  
Sulfuric Acid 7664-93-9 2007-07-01

**SARA 313 Components** The following components are subject to reporting levels established by SARA Title III, Section 313.  
CAS-No. Revision Date:  
Sulfuric Acid 7664-93-9 2007-07-01

**SARA 311/312 Hazards** Acute Health Hazard, Chronic Health Hazard

### Massachusetts right to know components

CAS-No. Revision Date:  
Sulfuric Acid 7664-93-9 2007-07-01

### Pennsylvania right to know components

CAS-No. Revision Date:  
Sulfuric Acid 7664-93-9 2007-07-01

### New Jersey right to know components

CAS-No. Revision Date:  
Sulfuric Acid 7664-93-9 2007-07-01

**California Prop. 65 Components** WARNING! This product contains a chemical known to the State of California to cause cancer.

CAS-No. Revision Date:  
Sulfuric Acid 7664-93-9 2007-07-01

## 16. Other Information

**Issuing Date** 13-March-2007

**Revision Date** 30-November-2015

**Revision Note** No information available

**Recommended Restrictions** No Restrictions

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in text.