

**Rapid Cal Immuno™****1. Identification****Product Name:** Rapid Cal Immuno™**Item #:** 6086, 6087, 6088, 6089, 6090**Web SDS:** S51**Synonyms:** N/A**Recommended Use:** Delcalcification**Restrictions on Use:** N/A**Manufacturer:**BBC Biochemical  
409 Eleanor Lane,  
Mount Vernon, WA 98273  
1-800-635-4477**In Case of Emergency:**Chemtec US 1-800-424-9300  
Chemtec International 703-527-3887**2. Hazards Identification****OSHA Hazard Classification(s):**Acute Toxicity - Dermal - Category 2  
Acute Toxicity - Inhalation - Category 2  
Acute Toxicity - Oral - Category 4  
Skin Corrosion - Category 1A  
Eye Damage - Category 1  
Toxic to Reproduction - Category 2  
Specific Target Organ Toxicity (repeated exposure) - Category 2  
Carcinogenicity - Category 1A**Signal Word:** Danger**Hazard Statement(s):** Fatal in contact with skin. Fatal if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Suspected of damaging fertility of the unborn child. May cause damage to organs (liver, kidney) through prolonged or repeated exposure. May cause cancer.**Pictogram(s):****Precautionary Statement(s):** Prevention: Do not get in eyes, on skin, or on clothing. Wash body thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and protective clothing. Do not breathe dust, vapors. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation where IDLH, OSHA STEL or PEL values reached wear NIOSH approved respiratory protection. Do not breathe dusts or mists. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection, face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Response: If on skin: Wash with plenty of water. Immediately call a doctor. Specific treatment (see first aid section on this label). Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Specific treatment is urgent (see first aid section on this label) If swallowed: Call a doctor if you feel unwell. Rinse mouth. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off all contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing If exposed or concerned: Get medical attention. Call a doctor if you feel unwell.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container in accordance with local regulations.

**Descriptions of Hazards not otherwise classified:** N/A**Percent of mixture with unknown acute toxicity:** N/A**3. Composition and Information on Ingredients**

Chemical Name	Common Name	CAS #	Concentration %



# Safety Data Sheet

## Rapid Cal Immuno™

Water		7732-18-5	Trade Secret
Select mineral acids		Trade Secret	Trade Secret
Select buffers		Trade Secret	Trade Secret
Select ethers		Trade Secret	Trade Secret

### 4. First Aid Measures

**Eye Contact:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention immediately.

**Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention immediately.

**Inhalation:** Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.

**Ingestion:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

**Symptoms:** Irritation of eyes, skin, nose, throat; skin burns, blisters, dermatitis; lacrimation; rhinorrhea; cough, dyspnea; nausea; eye redness, pain, burns, blurred vision; pulmonary edema; metabolic acidosis; unconsciousness, hemolysis, hematuria (blood in the urine); central nervous system depression, headache; vomiting bronchitis [potential occupational carcinogen] ; INGES. ACUTE: Burning sensation, sore throat, abdominal pain, cramps, vomiting, diarrhea

**Recommendations for immediate medical care/special treatment:** Get medical advice/attention if you feel unwell. Seek medical attention immediately for acute exposure.

### 5. Fire- Fighting Measures

**Extinguishing Media:** Dry chemical, carbon dioxide, alcohol foam, water.

**Fire Hazards (Chemical):** Not flammable.

**Special Protective Equipment:** Fire fighters should use self-contained breathing apparatus and protective clothing.

**Precautions for Firefighters:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

### 6. Accidental Release Measures

**Emergency Procedures:** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

**Protective Equipment:** See section 8

**Environmental Precautions:** Prevent release to the environment by using barriers.

**Containment and Clean-Up Procedures:** Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

### 7. Handling and Storage

**Handling:** Do not breathe vapors. Do not eat, drink or smoke when using this product.

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed. Do not store in metal containers.

### 8. Exposure Controls/Personal Protection

#### OSHA Permissible Exposure Limits (PELs):

Reagent	CAS #	OSHA PEL TWA
Select Acid (less than 10%)	Trade Secret	2ppm suggested
Select buffer	Trade Secret	0.2 mg/m3
Select ether	Trade Secret	50 ppm (240 mg/m3) TWA Skin

#### ACGIH Threshold Limit Values (TLVs):

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
Select Acid (less than 10%)	Trade Secret	2ppm suggested	4ppm suggested

**Rapid Cal Immuno™**

Select buffer	Trade Secret	0.2 mg/m <sup>3</sup>	
Select ether	Trade Secret	20 ppm (97 mg/m <sup>3</sup> )	

**Engineering Controls:** Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

**Personal Protective Measures:** Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

**Special PPE Requirements:** If ventilation hood not available wear respirator.

**9. Physical and Chemical Properties Section**

**Appearance:** Yellow, Liquid

**Molecular Weight:** N/A

**Molecular Formula:** N/A

**pH:** Less than 1

**Boiling Point and Boiling Range:** N/A

**Melting Point/Freezing Point:** N/A

**Flash Point:** N/A

**Specific Gravity/Relative Density:** N/A

**Odor:** Pungent

**Odor Threshold:** N/A

**Color:** Yellow

**Flammability (solid/gas):** N/A

**Vapor Density:** N/A

**Upper/Lower flammability or explosive limits:** N/A

**Vapor Pressure:** N/A

**Evaporation Rate:** N/A

**Partition Coefficient: n-octanol/water:** N/A

**Viscosity:** N/A

**Auto-ignition temperature:** N/A

**Solubility:** N/A

**Decomposition Temperature:** N/A

**10. Stability and Reactivity**

**Reactivity:** N/A

**Chemical Stability:** Stable

**Conditions of Stability/Instability:** N/A

**Stabilizers needed:** None

**Safety issue indicated by appearance change:** N/A

**Other:** N/A

**Hazardous Reactions:** N/A

**Hazardous Polymerization:** Does not occur

**Conditions to avoid:** Heat, sources of ignition.

**Classes of Incompatible Materials:** Oxidizers, Strong Acids, Strong Bases, organic material, Combustible materials, metallic powders, hydrogen sulfide, carbides, alcohols.

**Hazardous Decomposition Products:** Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide) may be released in a fire.

**11. Toxicological Information**

**Likely Routes of Exposure**

**Rapid Cal Immuno™**

**Eyes:** Corrosive to eyes, may cause permanent corneal damage, redness and pain.

**Skin:** Corrosive to skin, may cause permanent damage, redness, pain and death.

**Inhalation:** Toxic by inhalation. May cause bronchitis, death. Repeat exposure may cause effects to specific target organs listed below. Repeat exposure by inhalation increases risk of effects on reproductive system.

**Ingestion:** Poison to drink. May cause death. Very corrosive. May cause burns to mouth, throat, stomach and gastrointestinal tract.

**Signs or Symptoms of Exposure:** irritation eyes, skin, nose, throat, mucous membrane; delayed pulmonary edema, pneumonitis, bronchitis; dental erosion, hemolysis, hematuria (blood in the urine); central nervous system depression, headache; vomiting, dermatitis, bronchitis [potential occupational carcinogen]

**Effects from short term exposure (delayed, immediate, chronic):** Irritation to the eyes, nose, throat; headache, dizziness, nausea. Target Organs Eyes, skin, respiratory system, teeth, central nervous system, hematopoietic system, blood, kidneys, liver, lymphoid system, skin, bladder

**Acute Toxicity (Numerical Measures):** N/A

**Carcinogenicity (NTP, IARC, OSHA):** Contains material classified as carcinogenic, IARC Group 1 "Carcinogenic to humans".  
Cancer Site: lung, kidney & skin cancer

**12. Ecological Information**

**Ecotoxicity:** N/A

**Persistence and degradability:** N/A

**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** N/A

**Mobility in the soil:** N/A

**Adverse Environmental Effects:** N/A

**13. Disposal Considerations**

**Recommended Disposal Containers:** Check with your local waste authorities\*

**Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.\*

**Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.\*

**Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.\*

**Waste Stream:** Consult your local or regional authorities.\*

**14. Transport Information**

**UN Number:** UN3264

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid)

**Transport Hazard Class(es):** 8

**Packing Group Number:** II

**Environmental Hazards (IMDG code):**

**Marine Pollutant:** No

**Transport in Bulk (IBC Code):** N/A

**Special Transport Precautions:** N/A

**15. Regulatory Information**

**OSHA:**

**DOT:**

**EPA:**

**CPSC:**



# Safety Data Sheet

## Rapid Cal Immuno™

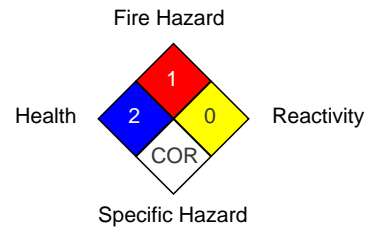
### 16. Other Information

**Revision Date:** 10/27/2014

#### NFPA

Health	2
Fire Hazard	1
Reactivity	0
Specific Hazard	COR

National Fire Protection Association (USA) NFPA



#### HMIS

Health	2
Flammability	1
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	2
Flammability	1
Physical Hazard	0
Personal Protection	

#### Notice to Reader:

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