



**HURST SCIENTIFIC**

**Safety Data Sheet  
Rapid Cal Immuno**

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**SECTION 1: Identification**

**GHS Product identifier**

Product name	Rapid Cal Immuno
Product number	6089
Brand	BBC Biochemical

**Recommended use of the chemical and restrictions on use**

Decalcification, Laboratory Reagent

**Supplier's details**

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

**Emergency phone number**

Australian Poisons Information Centre 131 126  
Australian Emergency Services 000

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**SECTION 2: Hazard identification**

**Classification of the substance or mixture**

**GHS classification in accordance with: Model WHS Regulations 2016**

- Acute toxicity, inhalation, Cat. 2
- Skin corrosion/irritation, Cat. 1A
- Eye damage/irritation, Cat. 1

**GHS label elements, including precautionary statements.**

**Pictograms**

# Safety Data Sheet

## Rapid Cal Immuno



1. Skull and crossbones; 2. Corrosion

### Signal word

### Danger

### Hazard statement(s)

H330

Fatal if inhaled.

H314

Causes severe skin burns and eye damage.

### Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P284

[In case of inadequate ventilation] wear respiratory protection.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310

Immediately call a POISON CENTER/doctor/...

P320

Specific treatment is urgent (see ... on this label).

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P501

Dispose of contents/container to ...

P264

Wash ... 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.

P363

Wash contaminated clothing before reuse.

P321

Specific treatment (see ... on this label).

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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## SECTION 3: Composition/information on ingredients

### Mixtures

### Hazardous components

#### 1. Water

Concentration

87 %

CAS no.

7732-18-5

#### 2. Nitric acid (40% to 70%)

Concentration

10 %

CAS no.

7697-37-2

#### 3. Select Buffers

Concentration

3 % (volume), Trade secret

#### 4. Select Ethers

Concentration

Not specified, Trade secret.

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## **SECTION 4: First-aid measures**

### **Description of necessary first-aid measures**

If inhaled	Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.
In case of skin contact	Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
In case of eye contact	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.
If swallowed	Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

### **Most important symptoms/effects, acute and delayed.**

Irritation of eyes, skin, nose, throat; skin burns, blisters, dermatitis; lacrimation; rhinorrhoea; cough, dyspnea; nausea; eye redness, pain, burns, blurred vision; pulmonary oedema; metabolic acidosis; unconsciousness, haemolysis, haematuria (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

### **Indication of immediate medical attention and special treatment needed, if necessary**

Get medical advice/attention if you feel unwell. Seek medical attention immediately for acute exposure.

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## **SECTION 5: Fire-fighting measures**

### **Suitable extinguishing media**

Dry chemical, carbon dioxide, alcohol foam, water.

### **Specific hazards arising from the chemical.**

Carbon monoxide and unidentified organic compounds may be formed during combustion.

### **Special protective actions for fire-fighters**

Fire fighters should use self-contained breathing apparatus and protective clothing.

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## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

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

### **Environmental precautions**

Prevent release to the environment by using barriers.

### **Methods and materials for containment and cleaning up.**

Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

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## **SECTION 7: Handling and storage**

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### Precautions for safe handling

Do not breathe vapours. Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities.

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

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: 7697-37-2

Nitric acid (40% to 70%)

AU/SWA (Australia): 4 ppm; 10 mg/m<sup>3</sup> STEL inhalation; 2 ppm; 5.2 mg/m<sup>3</sup> TWA inhalation; Cal/OSHA: 2 ppm, (ST) 4 ppm PEL inhalation; NIOSH: 2 ppm, (ST) 4 ppm REL inhalation; OSHA: 2 ppm PEL inhalation; 5 mg/m<sup>3</sup> PEL inhalation

### Appropriate engineering controls

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

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

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

#### Skin protection

Wear gloves, lab coat, eye protection and impervious footwear.

#### Respiratory protection

If ventilation hood not available wear respirator.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Yellow Liquid
Colour	Yellow
Odor	Pungent
Odor threshold	N/A
Melting point/freezing point	N/A
Boiling point or initial boiling point and boiling range	N/A
Flammability	N/A
Lower and upper explosion limit/flammability limit	N/A
Flash point	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
pH	Less than 1
Kinematic viscosity	N/A

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Solubility	N/A
Partition coefficient n-octanol/water (log value)	N/A
Vapor pressure	N/A
Evaporation rate	N/A
Density and/or relative density	N/A
Relative vapor density	N/A

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## SECTION 10: Stability and reactivity

### Reactivity

Not Reactive

### Chemical stability

Stable under normal conditions of temperature and pressure

### Possibility of hazardous reactions

N/A

### Conditions to avoid.

Heat, sources of ignition

### Incompatible materials

Oxidizers, Strong Acids, Strong Bases, organic material, Combustible materials, metallic powders, hydrogen sulphide, carbides, alcohols.

### Hazardous decomposition products

Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapours (I.e. Carbon monoxide) may be released in a fire.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

N/A

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### Respiratory or skin sensitization

Inhalation: Toxic by inhalation. May cause bronchitis, severe respiratory distress.

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

#### Carcinogenicity

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

### Additional information

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Signs or Symptoms of Exposure: Irritation eyes, skin, nose, throat, mucous membrane; delayed pulmonary oedema, pneumonitis, bronchitis; dental erosion, haemolysis, haematuria (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

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## SECTION 12: Ecological information

### Toxicity

N/A

### Persistence and degradability

N/A

### Bioaccumulate potential

N/A

### Mobility in soil

N/A

### Other adverse effects

N/A

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Do not dispose of in drains, check with your local waste authorities.

#### Packaging disposal

Check with your local waste authorities.

#### Waste treatment

Consult your local or regional authorities.

#### Sewage disposal

Consult your local or regional authorities.

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## SECTION 14: Transport information

UN Number	3264
UN Proper Shipping Name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Nitric Acid)
Transport hazard class(es)	8
Packing group	III

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## SECTION 15: Regulatory information

### Chemical Safety Assessment

OSHA: N/A

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DOT: N/A  
EPA: N/A  
CPSC: N/A

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### SECTION 16: Other information

#### References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Can print: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

#### Further information/disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

#### Preparation information

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