

## BBC Biochemical

## MATERIAL SAFETY DATA SHEET

**Section 1. Chemical Product and Company Information**

Common Name:	RegularCal•Immuno™	Code:	6080
Supplier:	BBC Biochemical 8510 Cedarhome Drive Stanwood, WA 98292	MSDS#:	6080
Synonym:	None.	Validation Date:	5/1/02
Trade Name:	Not available.	Print Date:	5/1/02
Material Uses:	Not available.	Responsible Name:	Dr. B
Manufacturer:	BBC Biochemical 8510 Cedarhome Drive Stanwood, WA 98292 1-800-635-4477	<b>In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-225-8867</b>	

**Section 2. Composition and Information on Ingredients**

Name	CAS#	% by Weight	OSHA PEL/TWA	ACGIH TLV/STEL
1) Water	7732-18-5	Percentage composition	Data not available.	Data not available.
2) Formic Acid 90%	64-18-8	withheld as trade secret.	5 ppm	10 ppm
3) Selected buffers	Not available		Data not available.	Data not available.
4) Selected ethers	Not available		Data not available.	Data not available.

**Section 3. Hazards Identification**

Physical State and Appearance	Clear yellow liquid.
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	Corrosive, irritation, and inflammation.
Skin	Corrosive, irritation with itching and local redness.
Inhalation	Corrosive, irritation, and inflammation to mucous membranes.
Ingestion	Corrosive, toxic. May cause headaches, dizziness, nausea, and general weakness.
Potential Chronic Health Effects	
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	Respiratory conditions.

**Section 4. First Aid Measures**

Eye Contact	Immediately flush with water for at least 15 minutes.
Skin Contact	Immediately flush with large amounts of water. Remove contaminated clothing.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	Dilute with large amounts of water, get immediate medical attention.
Notes to Physician	Not available.

**Section 5. Fire Fighting Measures**

Flammability of the Product	Not available.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various	Not available.

**Substances**

<b>Fire Fighting Media and Instructions</b>	Alcohol or all purpose-type foam for large fires, carbon dioxide or dry chemical for small fires. Water spray to cool containers and disperse vapors.
<b>Protective Clothing (Fire)</b>	Use self-contained breathing apparatus and protective clothing.
<b>Special Remarks on Fire Hazards</b>	Not available.
<b>Special Remarks on Explosion Hazards</b>	

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Flush small spills with large amounts of water. Evacuate the area of all unnecessary personnel. Wear suitable protective clothing listed in section VIII. Contain the release and eliminate it's source, if this can be done without risk. Neutralize, take up and containerize for proper disposal as described under Waste Disposal Method. Comply with Federal, State, and local regulations on reporting releases.
<b>Large Spill and Leak</b>	Same as above.

**Section 7, Handling and Storage**

<b>Handling</b>	Material should be handled in a fume hood with adequate ventilation. Do not breathe vapors. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
<b>Storage</b>	Keep container closed. Avoid metal containers. Store at controlled room temperature.

**Section 8. Exposure Controls / Personal Protection****Engineering Controls****Personal Protection**

**Eyes** Safety glasses with side shields should be worn at all times. Eye wash and safety equipment should be available.

**Body** Wear impervious protective clothing to prevent skin contact.

**Respiratory** If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MAHA approved air supplied respirator is advised in absence of proper environmental control.

**Hands** Protective gloves should be worn to prevent skin contact (Neoprene or equivalent).

**Feet** Wear impervious protective footwear to prevent skin contact.

**Personal Protection in Case of a Large Spill** Safety glasses with side shields, impervious clothing and footwear, respirator advised in absence of proper environmental control, protective gloves.

**Product Name Exposure Limits**

- 1)
- 2)
- 3)

Consult Local authorities before acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Not applicable.	<b>Odor:</b>	Not available.
<b>Molecular Weight</b>	Not applicable.	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	Clear yellow liquid.
<b>pH (1%/Water)</b>	Not applicable.		
<b>Boiling/Condensation Point</b>	Not applicable.		
<b>Melting/Freezing Point</b>	Not applicable.		
<b>Critical Temperature</b>	Not applicable.		
<b>Specific Gravity</b>	Not applicable.		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not applicable.		
<b>Volatility</b>	Not applicable.		
<b>Odor Threshold</b>	Not applicable.		
<b>Evaporation Rate</b>	Not applicable.		
<b>VOC</b>	Not available.		
<b>Viscosity</b>	Not available.		
<b>Ionicity (in water)</b>	Not available.		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Soluble in water.		
<b>Physical Chemical Comments</b>	Not available.		

**Section 10. Stability and Reactivity**

Stability and Reactivity	Stable.
Conditions of Instability	Avoid sources of ignition.
Incompatibility with Various Substances	Bases, oxidizers, H <sub>2</sub> O <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> .
Hazardous Decomposition Products	CO <sub>x</sub> , Na <sub>2</sub> O.
Hazardous Polymerization	Not available.

**Section 11. Toxicological Information**

Toxicity to Animals Chronic Effects on Humans Other Toxic Effects on Humans	LD50: Not available. LC50: Not available. Tests on laboratory animals indicate formic acid may produce adverse mutagenic effects.
Special Remarks on Toxicity to Animals Special Remarks on Chronic Effects on Humans Special Remarks on Other Toxic Effects on Humans	Tests on laboratory animals indicate formic acid may produce adverse mutagenic effects. Formic Acid DeMinimis/SARA 313% - 1.0 Not available. Not available.

**Section 12. Ecological Information**

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

**Section 13. Disposal Considerations**

Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

**Section 14. Transport Information**

DOT Classification	
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Not controlled under TDG (Canada).
ADR/RID Classification	Not controlled under ADR (Europe).
IMO/IMDG Classification	Not controlled under IMDG.
ICAO/IATA Classification	Not controlled under IATA.

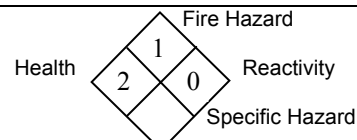
**Section 15. Other Information**

## Label requirements

## Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	1
Reactivity	0
Personal Protection	

## National Fire Protection Association (U.S.A.)



**References****Other Special  
Considerations****Validated by Dr. B on 5/1/02.****Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*