

# BBC Biochemical MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Information

Common Name: ImmunoChem•Fix™	Code: 3020
Supplier: BBC Biochemical	MSDS#: 3020
Synonym: None	Validation Date: 2-20-09
Trade Name: ImmunoChem•Fix™	Print Date: 2-20-09
Material Uses: Fixation	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	<b>In Case of Emergency: 1-800-424-9300 Chemtrec</b> <b>USA</b> <b>1-202-483-7616 Chemtrec Intrl</b> <b>1-800-635-4477</b>

## Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits
1) Water	7732-18-5	Percent composition withheld	Data no available.
2) Ammonium Sulfate	7783-20-2	as a trade secret.	

## Section 3. Hazards Identification

Physical State and Appearance	Colorless liquid, sharp pungent odor.
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	May cause irritation with redness, pain, and possibly corneal damage.
Skin	May cause irritation with redness and pain.
Inhalation	May cause irritation of the mucous membranes with sore throat and coughing.
Ingestion	Irritant to the gastrointestinal system.
Potential Chronic Health Effects	
Medical Conditions	Corneal disease, glaucoma, or chronic respiratory diseases.
Aggravated by Overexposure	
Overexposure/Signs/Symptoms	

## Section 4. First Aid Measures

Eye Contact	Immediately flush eyes thoroughly with water for at least 15 minutes.
Skin Contact	Wash area thoroughly with copious amounts of water. Remove contaminated clothing and clean before wearing again.
Inhalation	Remove to fresh air, give artificial respiration if breathing has stopped.
Ingestion	Get immediate medical attention; if conscious, give water freely. Do not induce vomiting unless directed to do so by medical personnel.
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	None indicated.
Explosion Hazards in	None indicated.

**Presence of Various Substances****Fire Fighting Media and Instructions** Wear self-contained breathing apparatus.**Protective Clothing (Fire)****Special Remarks on Fire Hazards****Special Remarks on Explosion Hazards****Section 6. Accidental Release Measures****Small Spill and Leak** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under section VIII. 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 this can be done without risk. Take up and containerize for proper disposal as described under Waste Disposal Method. Comply with Federal, State, and local regulations on reporting releases.**Large Spill and Leak** Same as above.**Section 7, Handling and Storage****Handling** Avoid prolonged, or repeated skin contact. Do not get in eyes. Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be available.**Storage** Keep container closed.**Section 8. Exposure Controls / Personal Protection****Engineering Controls****Personal Protection****Eyes** Safety glasses with side shields should be worn at all times.**Body** Impervious clothing should be worn to prevent skin contact.**Respiratory** Any dust or mist respirator. If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MSHA approved air respirator is advised in absence of proper environmental control. Material should be handled or transferred in an approved fume hood or with adequate ventilation.**Hands** Rubber or equivalent gloves should be worn to prevent skin contact.**Feet** Data not available.**Personal Protection in****Case of a Large Spill** Impervious clothing, rubber or equivalent gloves, safety glasses with side shields and respirator.**Product Name Exposure Limits**

- 1) Data not available.
- 2)
- 3)

**Consult Local authorities before acceptable exposure limits.****Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Colorless liquid.	<b>Odor:</b>	Pungent.
<b>Molecular Weight</b>	Not applicable.	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	Colorless.
<b>pH (1%/Water)</b>	Not applicable.		
<b>Boiling/Condensation Point</b>	100C.		
<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	None.
Incompatibility with Various Substances	Acids, corrosive to metals and alloys.
Hazardous Decomposition Products	Corrosive vapors of ammonia and toxic oxides or nitrogen.
Hazardous Polymerization	Does not occur.

**Section 11. Toxicological Information**

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

**Section 12. Ecological Information**

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OEDC Mobility	Not available. 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. Always contact a permitted waste disposer (TSD) to assure compliance with all current local, state and federal regulations.	

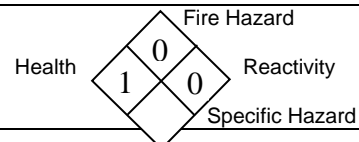
**Section 14. Transport Information**

DOT Classification	Not hazardous
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

<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health</b>	1	<b>National Fire Protection Association</b>
	<b>Fire Hazard</b>	0	
	<b>Reactivity</b>	0	



Personal Protection  (U.S.A.)

**References**

**Other Special  
Considerations**

**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.*