

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: 1% Alcian Blue	Code: MA0103013	MA0103056, MA0103015,
Supplier: BBC Biochemical	MSDS#: MA0103056, MA0103015, MA0103013	
Synonym: None	Validation Date: 5-11-09	
Trade Name: 1% Alcian Blue	Print Date: 5-11-09	
Material Uses: Stains	Responsible Name: Dr. B	
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477	

Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits
1) Glacial Acetic Acid	64-19-7	1%	Data no available.
2) Alcian Blue 8GX	75881-23-1	1%	
3) Preservative		<.1%	

Section 3. Hazards Identification

Physical State and Appearance	Clear dark blue liquid.
Emergency Overview	
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 be harmful
Inhalation	May be harmful if swallowed.
Ingestion	Harmful if swallowed.
Potential Chronic Health Effects	
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	

Section 4. First Aid Measures

Eye Contact	Immediately flush with large quantities of water for at least 15 minutes. Avoid accidental consumption of rinsate while treating eyes. Seek medical attention.
Skin Contact	Wash material from skin with copious amounts of water. Wash contaminated clothing before re-sure. Seek medical attention if irritation occurs.
Inhalation	Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if necessary.
Ingestion	Harmful if swallowed. Wash out mouth with water if person is conscious. Do not give anything by mouth if victim is unconscious. Seek medical attention immediately. Call local poison control center.
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	N/A
Explosion Hazards in Presence of Various Substances	Toxic Fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas and sulfur oxides may be emitted under fire conditions.
Fire Fighting Media and Instructions	Wear self-contained breathing apparatus. Use fire extinguishing media suitable for surrounding fire conditions. Avoid direct contact with runoff from fire fighting.
Protective Clothing (Fire)	
Special Remarks on Fire Hazards	
Special Remarks on Explosion Hazards	Toxic Fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas and sulfur oxides may be emitted under fire conditions.

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb small spills with paper towels or absorbent materials. Avoid contact to self and others with proper protective equipment.
Large Spill and Leak	Large spills may require the use of self-contained breathing apparatus or air purifying respirator, disposable coveralls, goggles, gloves, and rubber boots. Ventilate the area well after cleanup. Solid residues from spill cleanup may not be suitable for municipal solid waste disposal. Consult local or state authorities with regard to recommended method of disposal.

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	Store at room temperature.

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	None if used according to directions. Use a well ventilated laboratory. Safety shower and eye wash facilities should be available in laboratory.
Hands	Latex, Nitrile or vinyl gloves should be worn at all times.
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

Physical State and Appearance	Clear Dark Blue Liquid	Odor:	Characteristic Vinegar Odor
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Dark blue
pH	Acidic. Approximately 2.5		
Boiling/Condensation Point	100C.		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	Not applicable.		
Vapor Pressure	Not applicable.		
Vapor Density	Not applicable.		
Volatility	Not applicable.		
Odor Threshold	Not applicable.		
Evaporation Rate	Not applicable.		
VOC	Not available.		
Viscosity	Not available.		
Ionicity (in water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Miscible in water.		

Physical Chemical Comments	Not available.
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Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
Conditions of Instability	None.
Incompatibility with Various Substances	Avoid contact with acids, strong oxidizing agents, bases, soluble carbonates and phosphates, hydroxides, oxides, sulfur, acid anhydrides, peroxides, permanganates, amines and alcohols.
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.
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Chronic Effects on Humans	
Other Toxic Effects on Humans	

Special Remarks on Toxicity to Animals	Not available.
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Special Remarks on Chronic Effects on Humans	Not available.
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Special Remarks on Other Toxic Effects on Humans	Not available.
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Section 12. Ecological Information

Ecotoxicity	Not available.
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BODS and COD	Not available.
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Biodegradable/OEDC	Not available.
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Mobility	Not available.
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Toxicity of the Products of Biodegradation	Not available.
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Special Remarks on The Products of Biodegradation	Not available.
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Section 13. Disposal Considerations

Waste Information	Not available.
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Waste Stream	Not available.
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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.
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Marine Pollutant	Not available.
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Hazardous Substances Reportable Quantity	Not available.
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Special Provisions for Transport	Not applicable.
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TDG Classification	Not controlled under TDG (Canada).
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ADR/RID Classification	Not controlled under ADR (Europe).
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IMO/IMDG Classification	Not controlled under IMDG.
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ICAO/IATA Classification	Not controlled under IATA.
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Section 15. Other Information

Label requirements	
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Hazardous Material Information System (U.S.A.)	Health	2	National Fire Protection Association (U.S.A.)	
	Fire Hazard	0		
	Reactivity	0		
	Personal Protection			
References				
Other Special Considerations				
Notice to Reader				
<p><i>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.</i></p>				

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: Alcian Blue Stain Kit - 1% Lithium Carbonate	Code: 4010, MA0103016, MA0103013
Supplier: BBC Biochemical	MSDS#: 4010, MA0103016, MA0103013
Synonym: None	Validation Date: 5-11-09
Trade Name: 1% Lithium Carbonate	Print Date: 5-11-09
Material Uses: Stains	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits
1) Water	7732-18-5	balance	
2) 1% Lithium Carbonate	554-13-2	1%	Data no available.

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 Aggravated by Overexposure/Overexposure/Signs/Symptoms	Corneal disease, glaucoma, or chronic respiratory diseases.

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.
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 Presence of Various Substances	None indicated.

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 it's 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

Physical State and Appearance	Colorless liquid.	Odor:	Pungent.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Colorless.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	100C.		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	Not applicable.		
Vapor Pressure	Not applicable.		
Vapor Density	Not applicable.		
Volatility	Not applicable.		
Odor Threshold	Not applicable.		
Evaporation Rate	Not applicable.		
VOC	Not available.		
Viscosity	Not available.		
Ionicity (in water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Soluble in water.		
Physical Chemical Comments	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.
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. 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				
Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Fire Hazard	0		
	Reactivity	1		
	Personal Protection			

References

**Other Special
Considerations**

Notice to Reader

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