



Date Issued: 1/20/11
 Supersedes Date: _____

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: SPS-ABP(A)
 Part Name: ALCIAN BLUE, 1% IN 3% ACETIC ACID PH 2.5
 Supplier: Triangle Biomedical Sciences, Inc. (TBS)
 3014 Croasdaile Drive
 Durham, NC 27705
 Phone: 919-384-9393

Emergency Notification: ChemTel Inc. 1-888-255-3924 International +01-813-248-0585

Section 2: Composition/ Information on Ingredients

Item#		CAS#	% in product
1	Acetic acid	000064197	3
2	Alcian blue 8GX	033864992	1
3	Water	007732185	96

OSHA (ACGIH) Exposure Limits

CAS#	OSHA	ACGIH	IDLH	TWA		STEL		CEILING	
				ppm	mg/	ppm	mg/m3	ppm	mg/m3
000064197	OSHA	ACGIH	IDLH: 50	Not classifi	25	--	--	--	--
				10	25	15	15	--	--
007732185	OSHA	ACGIH	IDLH: NE	NE	NE	NE	NE	NE	NE
				NE	NE	NE	NE	NE	NE
033864992	OSHA	ACGIH	IDLH: NE	NE	NE	NE	NE	NE	NE
				NE	NE	NE	NE	NE	NE

Section 3: Hazards Identification

May cause skin, eye and respiratory tract irritation.
 Toxicological properties are not known.

Hazard Ratings:

These ratings are TBS' own assessments of the properties of the material using the ANSI/NFPA 704 Standard.
 Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	0	0

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.
If breathing is difficult, contact emergency personnel.
If swallowed, wash out mouth with water if person is conscious.
Remove to fresh air.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data Method: no data
UEL: no data LEL: no data Autoignition temperature, deg. F.: no data
Flammability Classification: no data Flame Propagation Rate: no data
Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.
Absorb liquids on absorbent material.
Contain spilled liquids.
Use appropriate personal protective equipment.

Section 7: Handling and Storage

Keep container closed when not in use.
Store at room temp

Section 8: Exposure Controls/ Personal Protection

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.
Use chemical splash goggles and face shield.
Use latex or equivalent gloves.
Use process enclosures, local exhaust ventilation, or other engineering controls.

Section 9: Physical and Chemical Properties

Formula:	no data	vapor pressure:	no data
Formula Weight:	no data	vapor density:	no data
boiling point:	no data	Specific gravity:	1
melting point:	no data	ph:	no data
solubility:	no data	appearance:	liquid

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 10: Stability and Reactivity

Chemical Stability Stable

Conditions to Avoid: no data

Incompatibility with other materials: no data

Hazardous Decomposition Products: no data

Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: no data

Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
000064197	not listed	not listed
007732185	not listed	not listed
033864992	not listed	not listed

Section 14: Transportation Data

Refer to bill of lading or container label for DOT or other transportation hazard classification , if any.

Section 15: Regulatory Information

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
000064197	no	no
007732185	no	no
033864992	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	FL	MA	MN	PA	WA
000064197					
007732185	not listed				
033864992	not listed				

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
000064197	not listed	not listed	not listed
007732185	not listed	not listed	not listed
033864992	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
000064197	not listed	not listed	not listed
007732185	not listed	not listed	not listed
033864992	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
000064197	Not listed	Not listed
007732185	Not listed	Not listed
033864992	Not listed	Not listed

Section 16: Other Information

TRIANGLE BIOMEDICAL SCIENCES (TBS) provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. TBS makes no representation or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, TBS will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required



Date Issued: 1/20/11
Supersedes Date: _____

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: SPS-ABP(D)
Part Name: HARRIS HEMATOXYLIN
Supplier: Triangle Biomedical Sciences, Inc. (TBS)
3014 Croasdaile Drive
Durham, NC 27705
Phone: 919-384-9393

Emergency Notification: ChemTel Inc. 1-888-255-3924 International +01-813-248-0585

Section 2: Composition/ Information on Ingredients

Item#	Name	CAS#	% in product
1	Acetic acid	000064197	3
2	Aluminum ammonium sulfate dodecahydrate	007784261	8
3	Ethyl alcohol	000064175	3
4	Hematoxylin	000517282	0.4
5	Sodium iodate	007681552	
6	Water	007732185	85

OSHA (ACGIH) Exposure Limits

CAS#	Name	IDLH	TWA		CEILING	
			ppm	mg/m ³	ppm	mg/m ³
000064175	Acetic acid	--				
	OSHA		Not classifi	--	--	--
	ACGIH		1000	1884	--	--
000064197	Aluminum ammonium sulfate dodecahydrate	50				
	OSHA		Not classifi	25	--	--
	ACGIH		10	25	15	15
000517282	Hematoxylin	NE				
	OSHA		NE	NE	NE	NE
	ACGIH		NE	NE	NE	NE
007681552	Sodium iodate	NE				
	OSHA		NE	NE	NE	NE
	ACGIH		NE	NE	NE	NE
007732185	Water	NE				
	OSHA		NE	NE	NE	NE
	ACGIH		NE	NE	NE	NE
007784261	Aluminum ammonium sulfate dodecahydrate	NE				
	OSHA		NE	NE	NE	NE
	ACGIH		NE	NE	NE	NE

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 3: Hazards Identification

Low hazard for usual industrial or commercial handling.

Hazard Ratings:

These ratings are TBS' own assessments of the properties of the material using the ANSI/NFPA 704 Standard.

Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	0	0

Section 4: First Aid Measures

Contact medical personnel.

Flush eyes with flowing water for at least 15 minutes.

If swallowed, wash out mouth with water if person is conscious.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: >200

Method: nap

UEL: no data

LEL: no data

Autoignition temperature, deg. F.: no data

Flammability Classification: no data

Flame Propagation Rate: no data

Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

Section 7: Handling and Storage

Store at room temp

Section 8: Exposure Controls/ Personal Protection

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Section 9: Physical and Chemical Properties

Formula:	mixture	vapor pressure:	no data
Formula Weight:	nap	vapor density:	no data
boiling point:	212	Specific gravity:	1.03
melting point:	32	ph:	6
solubility:	miscible	appearance:	red liquid

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 10: Stability and Reactivity

Chemical Stability stable

Conditions to Avoid: no data

Incompatibility with other materials: no data

Hazardous Decomposition Products: no data

Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: no data

Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
000064175	not listed	not listed
000064197	not listed	not listed
000517282	not listed	not listed
007681552	not listed	not listed
007732185	not listed	not listed
007784261	not listed	not listed

Section 14: Transportation Data

Refer to bill of lading or container label for DOT or other transportation hazard classification , if any.

Section 15: Regulatory Information

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
000064175	no	no
000064197	no	no
000517282	no	no
007681552	no	no
007732185	no	no
007784261	no	no

 NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#

000064175	FL	MA	MN	PA	WA
000064197	FL	MA	MN	PA	WA
000517282	not listed				
007681552	not listed				
007732185	not listed				
007784261	not listed				

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
000064175	not listed	not listed	not listed
000064197	not listed	not listed	not listed
000517282	not listed	not listed	not listed
007681552	not listed	not listed	not listed
007732185	not listed	not listed	not listed
007784261	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
000064175	not listed	not listed	not listed
000064197	not listed	not listed	not listed
000517282	not listed	not listed	not listed
007681552	not listed	not listed	not listed
007732185	not listed	not listed	not listed
007784261	not listed	not listed	not listed

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
000064175	Not listed	Not listed
000064197	Not listed	Not listed
000517282	Not listed	Not listed
007681552	Not listed	Not listed
007732185	Not listed	Not listed
007784261	Not listed	Not listed

Section 16: Other Information

TRIANGLE BIOMEDICAL SCIENCES (TBS) provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. TBS makes no representation or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, TBS will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required



Date Issued: 1/20/2011
Supersedes Date: _____

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: SPS-ABP©
Part Name: SODIUM METABISULFITE, 5%
Supplier: Triangle Biomedical Sciences, Inc. (TBS)
3014 Croasdaile Drive
Durham, NC 27705
Phone: 919-384-9393

Emergency Notification: ChemTel Inc. 1-888-255-3924 International +01-813-248-0585

Section 2: Composition/ Information on Ingredients

Item#	CAS#	% in product
1 Sodium thiosulfate pentahydrate	010102177	4.76
2 Water	007732185	95.24

OSHA (ACGIH) Exposure Limits TWA

CAS#	IDLH	TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
007732185	NE	NE	NE	NE	NE	NE	NE
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
010102177	NE	NE	NE	NE	NE	NE	NE
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

Section 3: Hazards Identification

Causes eye irritation.

Hazard Ratings:

These ratings are TBS' own assessments of the properties of the material using the ANSI/NFPA 704 Standard.

Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	0	0

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.
 If breathing is difficult, contact emergency personnel.
 If swallowed, wash out mouth with water if person is conscious.
 Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data Method: no data
 UEL: no data LEL: no data Autoignition temperature, deg. F.: no data
 Flammability Classification: no data Flame Propagation Rate: no data
 Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Absorb liquids on absorbent material.

Contain spilled liquids.

Protect personnel from exposure.

Use appropriate personal protective equipment.

Section 7: Handling and Storage

Store at room temp

Section 8: Exposure Controls/ Personal Protection

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Section 9: Physical and Chemical Properties

Formula:	Na ₂ S ₂ O ₃ ·5H ₂ O	vapor pressure:	no data
Formula Weight:	nav	vapor density:	no data
boiling point:	100 C	Specific gravity:	1.0
melting point:	0 C	ph:	no data
solubility:	miscible	appearance:	clear colorless liquid

Section 10: Stability and Reactivity

Chemical Stability	stable
Conditions to Avoid:	no data
Incompatibility with other materials:	no data
Hazardous Decomposition Products:	no data
Hazardous Polymerization:	will not occur

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 11: Toxicological Information

Acute Data: no data
 Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
007732185	not listed	not listed
010102177	not listed	not listed

Section 14: Transportation Data

Refer to bill of lading or container label for DOT or other transportation hazard classification , if any.

Section 15: Regulatory Information

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
007732185	no	no
010102177	no	no

State Regulatory Information: If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
007732185	not listed
010102177	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
007732185	not listed	not listed	not listed
010102177	not listed	not listed	not listed

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS# RQ(pounds)	Regulated name	TPQ (pounds)	EHS-
007732185	not listed	not listed	not listed
010102177	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
007732185	Not listed	Not listed
010102177	Not listed	Not listed

Section 16: Other Information

TRIANGLE BIOMEDICAL SCIENCES (TBS) provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. TBS makes no representation or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, TBS will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required



Date Issued: 1/20/11
Supersedes Date: _____

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: SPS-ABP(B)
Part Name: PERIODIC ACID 0.5%
Supplier: Triangle Biomedical Sciences, Inc. (TBS)
3014 Croasdaile Drive
Durham, NC 27705
Phone: 919-384-9393

Emergency Notification: ChemTel Inc. 1-888-255-3924 International +01-813-248-0585

Section 2: Composition/ Information on Ingredients

Item#	Name	CAS#	% in product
1	Periodic acid	010450609	0.4975
2	Water	007732185	99.5025

OSHA (ACGIH) Exposure Limits TWA

CAS#	Name	IDLH	TWA		STEL		CEILING	
			ppm	mg/	ppm	mg/m3	ppm	mg/m3
007732185	Water	NE	NE	NE	NE	NE	NE	NE
010450609	Periodic acid	NE	NE	NE	NE	NE	NE	NE

Section 3: Hazards Identification

Causes eye irritation.

Hazard Ratings:

These ratings are TBS' own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
0	0	0

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 4: First Aid Measures

Contact medical personnel.

Flush eyes with flowing water for at least 15 minutes.

If swallowed, wash out mouth with water if person is conscious.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: none

Method:

UEL: no data LEL: no data

Autoignition temperature, deg. F.: no data

Flammability Classification: no data

Flame Propagation Rate: no data

Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

Section 7: Handling and Storage

Store at room temp

Section 8: Exposure Controls/ Personal Protection

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Section 9: Physical and Chemical Properties

Formula:	mixture	vapor pressure:	as water
Formula Weight:	no data	vapor density:	as water
boiling point:	212	Specific gravity:	1.005
melting point:	32	ph:	no data
solubility:	miscible	appearance:	clear colorless liquid

Section 10: Stability and Reactivity

Chemical Stability stable

Conditions to Avoid: none

Incompatibility with other materials: none

Hazardous Decomposition Products: no data

Hazardous Polymerization: will not occur

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 11: Toxicological Information

Acute Data: no data
 Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
007732185	not listed	not listed
010450609	not listed	not listed

Section 14: Transportation Data

Refer to bill of lading or container label for DOT or other transportation hazard classification , if any.

Section 15: Regulatory Information

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
007732185	no	no
010450609	no	no

State Regulatory Information: If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
007732185	not listed
010450609	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
007732185	not listed	not listed	not listed
010450609	not listed	not listed	not listed

NA = not applicable NL = not listed NE = not established NNR = not normally required

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS# RQ(pounds)	Regulated name	TPQ (pounds)	EHS-
007732185	not listed	not listed	not listed
010450609	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
007732185	Not listed	Not listed
010450609	Not listed	Not listed

Section 16: Other Information

TRIANGLE BIOMEDICAL SCIENCES (TBS) provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. TBS makes no representation or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, TBS will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required



Date Issued: 1/20/11
Supersedes Date: _____

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: SPS-ABP(E)
Part Name: SCOTT'S BLUING
Supplier: Triangle Biomedical Sciences, Inc. (TBS)
3014 Croasdaile Drive
Durham, NC 27705
Phone: 919-384-9393

Emergency Notification: ChemTel Inc. 1-888-255-3924 International +01-813-248-0585

Section 2: Composition/ Information on Ingredients

Item#		CAS#	% in product
1	Sodium bicarbonate	000144558	2
2	Sulfuric acid magnesium salt (1:1)	007487889	0.34
3	Water	007732185	97.5

OSHA (ACGIH) Exposure Limits

	TWA	STEL		CEILING	
		ppm	mg/	ppm	mg/m3
CAS#: 000144558	IDLH: NE				
OSHA		NE	NE	NE	NE
ACGIH		NE	NE	NE	NE
CAS#: 007487889	IDLH: NE				
OSHA		NE	NE	NE	NE
ACGIH		NE	NE	NE	NE
CAS#: 007732185	IDLH: NE				
OSHA		NE	NE	NE	NE
ACGIH		NE	NE	NE	NE

Section 3: Hazards Identification

Low hazard for usual industrial or commercial handling.

Hazard Ratings:

These ratings are TBS' own assessments of the properties of the material using the ANSI/NFPA 704 Standard.

Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
0	1	0

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 4: First Aid Measures

No first aid measures are indicated.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data Method: no data
 UEL: no data LEL: no data Autoignition temperature, deg. F.: no data
 Flammability Classification: no data Flame Propagation Rate: no data
 Hazardous Combustion Products: carbon oxides

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

Section 7: Handling and Storage

Store at room temp

Section 8: Exposure Controls/ Personal Protection

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Section 9: Physical and Chemical Properties

Formula:	mixture	vapor pressure:	no data
Formula Weight:	mixture	vapor density:	no data
boiling point:	100 C	Specific gravity:	1.0
melting point:	0C	ph:	no data
solubility:	miscible	appearance:	clear liquid

Section 10: Stability and Reactivity

Chemical Stability stable

Conditions to Avoid: no data

Incompatibility with other materials: oxidizers

Hazardous Decomposition Products: carbon products

Hazardous Polymerization: will not occur

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 11: Toxicological Information

Acute Data: no data
 Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
000144558	not listed	not listed
007487889	not listed	not listed
007732185	not listed	not listed

Section 14: Transportation Data

Refer to bill of lading or container label for DOT or other transportation hazard classification , if any.

Section 15: Regulatory Information

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
000144558	no	no
007487889	no	no
007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
000144558	not listed
007487889	not listed
007732185	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
000144558	not listed	not listed	not listed
007487889	not listed	not listed	not listed
007732185	not listed	not listed	not listed

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
000144558	not listed	not listed	not listed
007487889	not listed	not listed	not listed
007732185	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
000144558	Not listed	Not listed
007487889	Not listed	Not listed
007732185	Not listed	Not listed

Section 16: Other Information

TRIANGLE BIOMEDICAL SCIENCES (TBS) provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. TBS makes no representation or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, TBS will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required