



Date Issued: February 16, 2011
Supersedes Date: 11/29/2010

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: E-1Y1P
Part Name: EOSIN Y 1% ALCOHOLIC SOLUTION
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	Acetaldehyde	000075070	0.0001
2	Acetic acid	000064197	0.0001
3	Acetic acid, ethyl ester	000141786	1.33
4	Acetone	000067641	0.0002
5	Cyclohexane	000110827	0.05
6	Eosin Y	017372871	0.1
7	Ethyl alcohol	000064175	92
8	Methanol	000067561	3.7
9	Methyl isobutyl ketone	000108101	1.91
10	n-Hexane	000110543	0.097
11	Solvent naphtha, light aliphatic	064742898	0.67

OSHA (ACGIH) Exposure Limits

CAS#	IDHL	TWA		STEL		CEILING	
		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
000064175	--	--	--	--	--	--	--
	OSHA: Not	--	--	--	--	--	--
	ACGIH:	1000	1884	--	--	--	--
000064197	50	--	--	--	--	--	--
	OSHA: Not	25	--	--	--	--	--
	ACGIH:	10	25	15	15	--	--
000067561	6,000	--	--	--	--	--	--
	OSHA: ACGIH;CAN	260	--	--	--	--	--
	ACGIH:	200	262	250	250	--	--
000067641	2,500	--	--	--	--	--	--
	OSHA: Not	2400	--	--	--	--	--
	ACGIH:	500	1188	750	750	--	--
000075070	2,000	--	--	--	--	--	--
	OSHA: Not	360	--	--	--	--	--
	ACGIH:	--	--	--	--	25	45
000108101	500	--	--	--	--	--	--
	OSHA: CANADA	410	--	--	--	--	--
	ACGIH:	50	205	75	75	--	--
000110543	1,100	--	--	--	--	--	--
	OSHA: ACGIH	1800	--	--	--	--	--
	ACGIH:	50	176	--	--	--	--

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

000110827	1,300						
OSHA:	Not	1050	--	--	--	--	
ACGIH:		300	1030	--	--	--	--
000141786	2,000						
OSHA:	Not	1400	--	--	--	--	
ACGIH:		400	1440	--	--	--	--
017372871	NE						
OSHA:	NE	NE	NE	NE	NE	NE	
ACGIH:		NE	NE	NE	NE	NE	NE
064742898	NE						
OSHA:	NE	NE	NE	NE	NE	NE	
ACGIH:		NE	NE	NE	NE	NE	NE

Section 3: Hazards Identification

Causes eye irritation.

Flammable liquid and vapor.

Harmful if swallowed.

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	----- 3	----- 0

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.

If swallowed, induce vomiting as directed by medical personnel.

Separate eyelids with finger tips.

Section 5: Fire Fighting Measures

Flash point, deg F.: 51 Method: TCC

UEL: 19.0 LEL: 3.3 Autoignition temperature, deg. F.: no data

Flammability Classification: 3 Flame Propagation Rate: no data

Hazardous Combustion Products: none

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.

Remove ignition sources.

Section 7: Handling and Storage

Store at 25 deg. C.

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 latex or equivalent gloves.

Use process enclosures, local exhaust ventilation, or other engineering controls.

Section 9: Physical and Chemical Properties

Formula: mixture vapor pressure: 40.4

Formula Weight: nap vapor density: 1.6

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

boiling point:	171	Specific gravity:	0.79
melting point:	no data	ph:	no data
solubility:	>90%	appearance:	colorless liquid

Section 10: Stability and Reactivity

Chemical Stability:	stable
Conditions to Avoid:	none
Incompatibility with other materials:	none
Hazardous Decomposition Products:	none
Hazardous Polymerization:	will not occur

Section 11: Toxicological Information

Acute Data:	no data
Subchronic data:	Ingestion may cause liver damage and fetal damage.

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
000067561	U154	Methyl alcohol
000067641	U002	Acetone
000075070	U001	Ethanal
000108101	U161	Pentanol, 4-methyl-
000110543	not listed	not listed
000110827	U056	Cyclohexane
000141786	U112	Ethyl acetate
017372871	not listed	not listed
064742898	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.

UN Number: 1987**Section 15: Regulatory Information**

All components of this product are on the TSCA public inventory.

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
000067561	no	no
000067641	no	no
000075070	Yes	no
000108101	no	no
000110543	no	no

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

000110827	no	no
000141786	no	no
017372871	no	no
064742898	no	no

State Regulatory Information: If 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
000067561	FL	MA	MN	PA	WA
000067641	FL	MA	MN	PA	WA
000075070	FL	MA	MN	PA	WA
000108101	FL	MA	MN	PA	WA
000110543	FL	MA	MN	PA	WA
000110827	FL	MA	MN	PA	WA
000141786	FL	MA	MN	PA	WA
017372871	not listed				
064742898	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
000067561	Methanol	1.0	not listed
000067641	not listed	not listed	not listed
000075070	Acetaldehyde	0.1	not listed
000108101	Methyl isobutyl ketone	1.0	not listed
000110543	Hexane	1.0	not listed
000110827	Cyclohexane	1.0	not listed
000141786	not listed	not listed	not listed
017372871	not listed	not listed	not listed
064742898	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
000067561	not listed	not listed	not listed
000067641	not listed	not listed	not listed
000075070	not listed	not listed	not listed
000108101	not listed	not listed	not listed
000110543	not listed	not listed	not listed
000110827	not listed	not listed	not listed
000141786	not listed	not listed	not listed
017372871	not listed	not listed	not listed

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

064742898 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
000064175	Not listed	Not listed
000064197	Not listed	Not listed
000067561	Not listed	Not listed
000067641	Not listed	Not listed
000075070	Not listed	Not listed
000108101	Not listed	Not listed
000110543	Not listed	Not listed
000110827	Not listed	Not listed
000141786	Not listed	Not listed
017372871	Not listed	Not listed
064742898	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 judgement 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