

# Material Safety Data Sheet

Complies with EC no. 1907/2006  
Issue Date: 11/15/2013

## Section 1: Chemical Product and Company Identification

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Cat#: 08824A

Part Name: MULTIPLE STAIN SOLUTION

Supplier: Polysciences, Inc.  
400 Valley Road  
Warrington, PA 18976 USA  
MSDS Telephone #215-343-6484 Emergency only #215-378-4526

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

Hazard Overview

Flammable liquid and vapor.

Toxic if swallowed.

GHS Classification

Acute Toxicity Oral Category 3

Flammable Liquids Category 3

Signal word: Danger



Hazard and Precautionary Statements

- H226 Flammable liquid and vapour.  
H301 Toxic if swallowed.  
P285 In case of inadequate ventilation wear respiratory protection.  
P301A IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305B IF IN EYES, Separate eyelids with finger tips.  
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P351 Rinse cautiously with water for several minutes.  
P361 Remove/Take off immediately all contaminated clothing.

NFPA Rating

Hazard Ratings:

These ratings are Polysciences' Inc. 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 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	Acetaldehyde	200-836-8	0000075070	0 - 5
2	Acetic acid	200-580-7	0000064197	0 - 5
3	Acetic acid, ethyl ester	205-500-4	0000141786	0 - 5
4	Acetone	200-662-2	0000067641	0 - 5
5	Basic Fuchsin, Rosaniline, C.I. 42510	211-189-6	0000632995	0 - 5

6	Cyclohexane	203-806-2	0000110827	0 - 5
7	Ethyl alcohol	200-578-6	0000064175	21 - 30
8	Methanol	200-659-6	0000067561	0 - 5
9	Methyl isobutyl ketone	203-550-1	0000108101	0 - 5
10	n-Hexane	203-777-6	0000110543	0 - 5
11	Phenothiazin-5-ium, 3-amino-7-(dimethylamino)-2-methyl-, chloride	202-146-2	0000092319	0 - 5
12	Solvent naphtha, light aliphatic	265-192-2	0064742898	0 - 5
13	Water	231-791-2	0007732185	61 - 70

**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 contaminated clothing.  
 Remove to fresh air.  
 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.: 95                                  Method: CC  
 UEL: no data              LEL: no data                          Autoignition temperature, deg. F.: no data  
 Flammability Classification: IC                                  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.  
 Prevent contact with combustible materials.  
 Protect personnel from exposure.  
 Remove ignition sources.  
 Use appropriate personal protective equipment.  
 Ventilate the area.

**Section 7: Handling and Storage**

Store at room temp

**Section 8: Exposure Controls/ Personal Protection**

**OSHA (ACGIH) Exposure Limits**

		TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000064175	IDLH: --						
OSHA		Not classifi	--	--	--	--	--
ACGIH		1000	1884	--	--	--	--
CAS#: 0000064197	IDLH: 50						
OSHA		Not classifi	25	--	--	--	--
ACGIH		10	25	15	15	--	--
CAS#: 0000067561	IDLH: 6,000						
OSHA		ACGIH;CA	260	--	--	--	--
ACGIH		200	262	250	250	--	--
CAS#: 0000067641	IDLH: 2,500						
OSHA		Not classifi	2400	--	--	--	--
ACGIH		500	1188	750	750	--	--
CAS#: 0000075070	IDLH: 2,000						
OSHA		Not classifi	360	--	--	--	--
ACGIH		--	--	--	--	25	45

CAS#: 0000092319	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0000108101	IDLH: 500						
OSHA		CANADA	410	--	--	--	--
ACGIH		50	205	75	75	--	--
CAS#: 0000110543	IDLH: 1,100						
OSHA		ACGIH	1800	--	--	--	--
ACGIH		50	176	--	--	--	--
CAS#: 0000110827	IDLH: 1,300						
OSHA		Not classifi	1050	--	--	--	--
ACGIH		300	1030	--	--	--	--
CAS#: 0000141786	IDLH: 2,000						
OSHA		Not classifi	1400	--	--	--	--
ACGIH		400	1440	--	--	--	--
CAS#: 0000632995	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0007732185	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0064742898	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

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

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product.

Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

## Section 9: Physical and Chemical Properties

Formula:	no data	vapor pressure:	no data
Formula Weight:	no data	vapor density:	no data
boiling point:	170-212 F	Specific gravity:	0.9
melting point:	no data	ph:	no data
solubility:	complete	appearance:	opaque blue liquid

## Section 10: Stability and Reactivity

Chemical Stability stable

Conditions to Avoid: heat, open flame

Incompatibility with other materials: oxidizing agents

Hazardous Decomposition Products: oxides of carbon, oxides of nitrogen, oxides of sulfur, hydrogen chloride gas

Hazardous Polymerization: will not occur

## Section 11: Toxicological Information

Acute Data: no data

Subchronic data: no data

## Section 12: Ecological Information

no data

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**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
0000064175	not listed	not listed
0000064197	not listed	not listed
0000067561	U154	Methanol
0000067641	U002	Acetone
0000075070	U001	Ethanal
0000092319	not listed	not listed
0000108101	U161	Pentanol, 4-methyl-
0000110543	not listed	not listed
0000110827	U056	Cyclohexane
0000141786	U112	Ethyl acetate
0000632995	not listed	not listed
0007732185	not listed	not listed
0064742898	not listed	not listed

**Section 14: Transportation Data**

Proper Shipping Name	ALCOHOLS, N.O.S.
Chemical Name	contains ethanol, methanol
UN	UN1987
Class	3
PG	III

**Section 15: Regulatory Information**

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

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
0000064175	no	no
0000064197	no	no
0000067561	Yes	no
0000067641	no	no
0000075070	Yes	no
0000092319	no	no
0000108101	no	no
0000110543	no	no
0000110827	no	no
0000141786	no	no
0000632995	no	no
0007732185	no	no
0064742898	no	no

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

CAS#	
0000064175	not listed
0000064197	not listed
0000067561	not listed
0000067641	not listed
0000075070	not listed
0000092319	not listed
0000108101	

not listed

0000110543 not listed  
0000110827 not listed  
0000141786 not listed  
0000632995 not listed  
0007732185 not listed  
0064742898 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.
0000064175	not listed	not listed	not listed
0000064197	not listed	not listed	not listed
0000067561	Methanol	1.0	not listed
0000067641	not listed	not listed	not listed
0000075070	Acetaldehyde	0.1	not listed
0000092319	not listed	not listed	not listed
0000108101	Methyl isobutyl ketone	1.0	not listed
0000110543	Hexane	1.0	not listed
0000110827	Cyclohexane	1.0	not listed
0000141786	not listed	not listed	not listed
0000632995	not listed	not listed	not listed
0007732185	not listed	not listed	not listed
0064742898	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)
0000064175	not listed	not listed	not listed
0000064197	not listed	not listed	not listed
0000067561	not listed	not listed	not listed
0000067641	not listed	not listed	not listed
0000075070	not listed	not listed	not listed
0000092319	not listed	not listed	not listed
0000108101	not listed	not listed	not listed
0000110543	not listed	not listed	not listed
0000110827	not listed	not listed	not listed
0000141786	not listed	not listed	not listed
0000632995	not listed	not listed	not listed
0007732185	not listed	not listed	not listed
0064742898	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)
0000064175	Not listed	Not listed
0000064197	Not listed	Not listed
0000064197	Acetic acid	5,000
0000064197	Acetic acid, glacial	5,000
0000064197	Vinegar acid	5,000
0000067561	Not listed	Not listed
0000067561	Methyl alcohol	5,000
0000067641	Not listed	Not listed

0000067641	2-Propanone	5,000
0000067641	Acetone	5,000
0000075070	Not listed	Not listed
0000075070	Acetaldehyde	1,000
0000075070	Acetic aldehyde	Not listed
0000075070	Ethanal	1,000
0000075070	Ethyl aldehyde	Not listed
0000092319	Not listed	Not listed
0000108101	Not listed	Not listed
0000108101	4-Methyl-2-pentanone	5,000
0000108101	Hexone	5,000
0000108101	Methyl isobutyl ketone	5,000
0000110543	Not listed	Not listed
0000110543	Hexanes	5,000
0000110827	Not listed	Not listed
0000110827	Benzene, hexahydro-	1,000
0000110827	Cyclohexane	1,000
0000141786	Not listed	Not listed
0000141786	Acetic acid, ethyl ester	5,000
0000141786	Ethyl acetate	5,000
0000632995	Not listed	Not listed
0007732185	Not listed	Not listed
0064742898	Not listed	Not listed

**Section 16: Other Information**

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