**SIMMLER, INC.**

4564 North Square Drive
 High Ridge, Missouri 63049
 (636) 376-8347

Mailing Address:
 Post Office Box 350
 High Ridge, MO 63049

MATERIAL SAFETY DATA SHEET

IDENTITY (as used on label and list) **S0411-09 Citrate Buffer / S0412 Fetal Cell Stain Kit**

SECTION I

MANUFACTURER'S NAME:
 SIMMLER, INC.

EMERGENCY TELEPHONE NUMBER
 800-325-0786

ADDRESS: (number, street, city, state and ZIP)
 4564 NORTH SQUARE DRIVE
 P.O. BOX 350
 HIGH RIDGE, MO. 63049

INFORMATION TELEPHONE NUMBER
 636-376-8347

DATE REVISED
 FEBRUARY 1, 2011

SECTION II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific chemical identity; common names)	CAS#	OSHA PEL	ACGIH TLV	% Optional
DEIONIZED WATER	CAS# 7732-18-5	NONE LISTED		GREATER THAN 97%
CITRIC ACID MONO	CAS# 77-92-9	NONE ESTABLISHED		LESS THAN 2.0%
SOD. PHOSPHATE DIBASIC	CAS# 2353-45-9	NONE LISTED		LESS THAN 1.0%
PHENYLMECURIC ACETATE	CAS# 62-384	NONE LISTED		LESS THAN 0.1%

SECTION III - Physical/Chemical Characteristics

Boiling point	Not Available	Specific gravity (H2O=1)	Not Available
Vapor Pressure (mm Hg.)	Not Available	Melting point	Not Available
Vapor Density (Air=1)	Not Available	Evaporation rate (Butyl Acetate=1)	Not Available
Solubility in Water	Soluble	Appearance and Odor	Colorless , Odorless

SECTION IV - Fire and Explosion Hazard Data

Flash point (Method used)	Not Available	Flammable Limits	Non Flammable
LEL	Not Available	UEL	Not Available
Extinguishing media:	Carbon Dioxide, Dry Chemical		
Special fire fighting procedures:	Self Contained Breathing Apparatus		
Unusual fire and explosion hazards:	When heated to decomposition, emits toxic fumes of Mercury.		

SECTION V - Reactivity Data

Stability	Stable	Conditions to avoid	None
Incompatibility (Materials to avoid)	None		
Hazardous decompositions or Byproducts	None		
Hazardous polymerization-Will not occur		Conditions to avoid	None

SECTION VI - Health Hazard Data

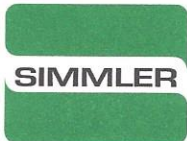
Routes of entry	Inhalation? No	Skin? Yes	Ingestion? Yes
Health hazards (Acute and Chronic)	Contact - Skin irritant		
	Ingestion - Seek medical advice		
Carcinogenicity:	NTP? N/A	IARC Monographs? N/A	OSHA regulated? N/A
Signs and symptoms of exposure:	Contact - Skin irritation		
Medical conditions generally aggravated by exposure:	None		
Emergency and first aid procedures:	Contact-Wash area with water		
	Ingested-Digestive disturbances/Seek medical advice		

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:	Wipe up with soap and water. Wear gloves and protective clothing.
Waste disposal method:	Flush with copious amounts of water
Precautions to be taken in handling and storing:	Avoid contact with skin, eyes and ingestion. Avoid extreme heat. Wear protective glasses and gloves when handling.
Other precautions:	None

SECTION VIII - Control Measures

Respiratory protection (specify type):	None	
Ventilation: Mechanical	Special: No	Other: No
Protective gloves: Yes	Eye protection: Yes	
Other protective clothing or equipment:	None	
Work/hygienic practices:	Good Laboratory Practices	



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MATERIAL SAFETY DATA SHEET

IDENTITY (as used on label and list) **S0410-09 Fixing Solution / S0412 Fetal Cell Stain Kit**

SECTION I

MANUFACTURER'S NAME:
SIMMLER, INC.

EMERGENCY TELEPHONE NUMBER
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SECTION II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific chemical identity; common names)	CAS#	OSHA PEL	ACGIH TLV	% Optional
DEIONIZED WATER	CAS# 7732-18-5	NONE LISTED		GREATER THAN 20%
ISOPROPANOL	CAS# 17-63-0	400 ppm	400 ppm	GREATER THAN 4%
SDA ALCOHOL	CAS# 64-17-5	SEE BELOW		LESS THAN 76%

SDA ALCOHOL	%	OHSA PEL	ACGIH TLV
ETHYL ALCOHOL	89.24	1000 ppm	1000 ppm
ETHYL ACETATE	5.36	400 ppm	400 ppm
METHYL ISOBUTYL KETONE	0.95	100 ppm	50 ppm
ISOPROPYL ALCOHOL	4.45	200 ppm	200 ppm

SECTION III - Physical/Chemical Characteristics

Boiling point	78° C	Specific gravity (H2O=1)	0.82
Vapor Pressure (mm Hg.)	25° C / 47	Melting point	-114° C
Vapor Density (Air=1)	1.6	Evaporation rate (Butyl Acetate=1)	Ca 3.3
Solubility in Water	Soluble	Appearance and Odor:	Colorless liquid, Mild odor

SECTION IV - Fire and Explosion Hazard Data

Flash point (Method used)	20° C - Closed cup	Flammable Limits	Flammable
LEL	3.3	UEL	19.0
Extinguishing media:	Carbon Dioxide, Dry Chemical		
Special fire fighting procedures:	Self Contained Breathing Apparatus		
Unusual fire and explosion hazards:	Flammable		

SECTION V - Reactivity Data

Stability Stable Conditions to avoid Extreme Heat
Incompatibility(Materials to avoid) Alkelene oxides , acids, halogens
Hazardous decompositions or Byproducts None
Hazardous polymerization-Will not occur Conditions to avoid None

SECTION VI - Health Hazard Data

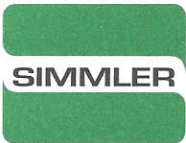
Routes of entry Inhalation? No Skin? Yes Ingestion? Yes
Health hazards (Acute and Chronic)
Contact - Skin irritant
Ingestion - Digestive disturbances, tremors, headaches
Carcinogenicity: NTP? N/A IARC Monographs? N/A OSHA regulated? N/A
Signs and symptoms of exposure: Contact - Skin irritation
Ingestion - Seek medical advice
Medical conditions generally aggravated by exposure: None
Emergency and first aid procedures: Contact-Wash area with water
Ingested-Seek medical advice

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Eliminate sources of ignition. Dilute with water. Wipe up with suitable absorbent.
Waste disposal method: Ensure conformity with local regulations.
Precautions to be taken in handling and storing: Avoid contact with skin, eyes and ingestion.
Wear protective glasses and gloves when handling.
Keep away from extreme heat and open flame.
Other precautions: None

SECTION VIII - Control Measures

Respiratory protection (specify type): None
Ventilation: Mechanical Special: No Other: No
Protective gloves: Yes Eye protection: Yes
Other protective clothing or equipment: None
Work/hygienic practices: Good Laboratory Practices



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MATERIAL SAFETY DATA SHEET

IDENTITY (as used on label and list) **S0409-09 Staining Solution / S0412 Fetal Cell Stain Kit**

SECTION I

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EMERGENCY TELEPHONE NUMBER
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SECTION II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific chemical identity; common names)	CAS#	OSHA PEL	ACGIH TLV	% Optional
DEIONIZED WATER	CAS# 7732-18-5	NONE LISTED		GREATER THAN 95%
ERYTHROSIN B SODIUM	CAS# 588-63-8	NONE LISTED		LESS THAN 0.1%
FAST GREEN FCF	CAS# 2353-45-9	NONE ESTABLISHED		LESS THAN 0.01%

SECTION III - Physical/Chemical Characteristics

Boiling point	Not Available	Specific gravity (H2O=1)	Not Available
Vapor Pressure (mm Hg.)	Not Available	Melting point	Not Available
Vapor Density (Air=1)	Not Available	Evaporation rate (Butyl Acetate=1)	Not Available
Solubility in Water	Soluble	Appearance and Odor	Red Odorless

SECTION IV - Fire and Explosion Hazard Data

Flash point (Method used)	Not Available	Flammable Limits	Non Flammable
LEL	Not Available	UEL	Not Available
Extinguishing media:	Carbon Dioxide, Dry Chemical		
Special fire fighting procedures:	Self Contained Breathing Apparatus		
Unusual fire and explosion hazards:	When heated to decomposition, emits toxic fumes of Iodides.		

SECTION V - Reactivity Data

Stability	Stable	Conditions to avoid	None
Incompatibility(Materials to avoid)	None		
Hazardous decompositions or Byproducts	Iodides		
Hazardous polymerization-Will not occur		Conditions to avoid	None

SECTION VI - Health Hazard Data

Routes of entry	Inhalation? No	Skin? Yes	Ingestion? Yes
Health hazards (Acute and Chronic)	Fast Green FCF - Possible Carcinogen		
	Contact - Skin irritant		
	Ingestion - Should be considered health hazard		
Carcinogenicity:	NTP? N/A	IARC Monographs? 16, 1978	OSHA regulated? N/A
Signs and symptoms of exposure:	Contact - Skin irritation		
Medical conditions generally aggravated by exposure:	None		
Emergency and first aid procedures:	Contact-Wash area with water		
	Ingested-Seek medical advice		

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:	Wipe up with soap and water
Waste disposal method:	Flush with copious amounts of water
Precautions to be taken in handling and storing:	Avoid contact with skin, eyes and ingestion. Avoid extreme heat. Wear protective glasses and gloves when handling.
Other precautions:	None

SECTION VIII - Control Measures

Respiratory protection (specify type):	None	
Ventilation: Mechanical	Special: No	Other: No
Protective gloves: Yes	Eye protection: Yes	
Other protective clothing or equipment:	None	
Work/hygienic practices:	Good Laboratory Practices	