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### SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

S0409-09 Staining Solution/S0412 Fetal Cell Stain Kit S0412A-100 Fetal Cell Staining Solution 3 x 120 ml

Name, address, and telephone number of

the manufacturer:

Refer to supplier

Product Code(s) : None reported.

Recommended use of the chemical and restrictions on use

: Reagent

Use pattern: Professional Use Only Recommended restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number

**Simmler, Inc.** 4564 North Square Drive

P.O. Box 350 High Ridge, MO, USA

of the supplier:

63049

Supplier's Telephone # : 636-376-8347 **24 Hr. Emergency Tel #** : 800-325-0786

: 000-020-07

# SECTION 2. HAZARDS IDENTIFICATION

# Classification of the chemical

Red, odorless liquid.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

# Label elements

Signal Word

Not required

Hazard statement(s)

Not applicable.

Precautionary statement(s)

Not applicable.

### Other hazards



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Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach. Contact with eyes may cause irritation. May cause skin irritation.

Environmental precautions:

Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Common name and synonyms	CAS#	<u>Concentration</u>
Erythrosin B	Fluorescein, 2',4',5',7'-tetraiodo-, disodium salt	16423-68-0	<0.1
Fast Green FCF	Food Green 3	2353-45-9	<0.01

## SECTION 4. FIRST-AID MEASURES

# Description of first aid measures

Ingestion : Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by

mouth to an unconscious person. Get medical attention.

Inhalation : Immediately remove person to fresh air. If breathing has stopped, give artificial

respiration. If breathing is difficult, give oxygen by qualified medical personnel only.

Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact : Wash affected areas with soap and water. Take off contaminated clothing and wash

before re-use. Get medical attention if irritation develops and persists.

Eye contact : Flush with large amounts of water for 15 minutes. Remove contact lenses if present

and easy to do. If irritation or symptoms develop, seek medical attention.

### Most important symptoms and effects, both acute and delayed

Direct skin contact may cause temporary redness. Direct eye contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation to the nose, throat and upper respiratory tract.

### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

# SECTION 5. FIRE-FIGHTING MEASURES

### **Extinguishing media**

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

### Special hazards arising from the substance or mixture / Conditions of flammability

:

Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.



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Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

Carbon dioxide and carbon monoxide. Iodides.

### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

.

Evacuate personnel to safe areas. Move containers from fire area if safe to do so.Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control.Avoid release to the environment.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

: All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

information on acceptable personal protective equipment.

**Environmental precautions** 

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

### Methods and material for containment and cleaning up

: Ventilate the area. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

### Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): None reportable.

# SECTION 7. HANDLING AND STORAGE

## Precautions for safe handling

: Use in well ventilated area. Wear suitable protective equipment. Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Keep away from heat and flame. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use.

# Conditions for safe storage

Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : None known.

# SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



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Exposure Limits:							
Chemical Name	ACGIH '	<u>TLV</u>	OSHA PEL				
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>			
Erythrosin B	N/Av	N/Av	N/Av	N/Av			
Fast Green FCF	N/Av	N/Av	N/Av	N/Av			

# **Exposure controls**

Ventilation and engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne

concentration of vapours below their respective threshold limit value.

**Respiratory protection**: Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH

approved dust respirator if dust levels exceed exposure limits. Seek advice from

respiratory protection specialists.

**Skin protection**: Wear protective gloves. Advice should be sought from glove suppliers.

**Eye / face protection**: Safety goggles or glasses as appropriate for the job.

Other protective equipment

General hygiene considerations

Wear suitable protective clothing.

: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove

soiled clothing and wash it thoroughly before reuse.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Red liquid.

Odour : Odorless.

Odour threshold : No information available.

pH : Not available.Melting/Freezing point : Not available.

Initial boiling point and boiling range

: Not available.

Flash point : Not applicable.
Flashpoint (Method) : Not applicable.

Evaporation rate (BuAe = 1) : No information available.

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

N/Ap

Upper flammable limit (% by vol.)

N/Ap

Oxidizing properties : None known. Explosive properties : Not explosive

Vapour pressure: No information available.Vapour density: No information available.

Relative density / Specific gravity

Not available.

Solubility in water : Soluble

Other solubility(ies) : No information available.



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Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature : No information available.

Decomposition temperature : No information available.

Viscosity : Not available.

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: No information available.

Absolute pressure of container

N/Ap

Flame projection length : N/Ap

Other physical/chemical comments

: None reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid : Avoid contact with skin and eyes. Do not ingest. Avoid heat and open flame.

Incompatible materials : None known.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

# SECTION 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption

....

: NO

### **Potential Health Effects:**

# Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

May cause irritation to the nose, throat and upper respiratory tract.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin : May cause mild skin irritation on prolonged contact.

Sign and symptoms eyes : Direct eye contact may cause slight redness.

**Potential Chronic Health Effects** 

: None known or reported by the manufacturer.

Mutagenicity : Contains a chemical or chemicals that may be mutagens. This product contains: Fast

Green FCF and Erythrosin B.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.



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### Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

: The substance or mixture is not classified as specific target organ toxicant, single

exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated

exposure.

Medical conditions aggravated by overexposure

None expected, when used as intended.

Synergistic materials

: No information available.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for

individual ingredient acute toxicity data.

	LCso(4hr)	LD <sub>50</sub>			
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)		
Erythrosin B	N/Av	1840 mg/kg	N/Av		
Fast Green FCF	N/Av	>2 g/kg	N/Av		

### Other important toxicological hazards

: To the best of our knowledge, the toxicological properties of this material have not been thoroughly investigated.

# SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

:

The product should not be allowed to enter drains or water courses, or be deposited

where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

# Ecotoxicity data:

lu mus di susta	040 N	Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Erythrosin B	16423-68-0	N/Av	N/Av	None.		
Fast Green FCF	2353-45-9	N/Av	N/Av	None.		

<u>Ingredients</u>	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Erythrosin B	16423-68-0	N/Av	N/Av	None.		
Fast Green FCF	2353-45-9	N/Av	N/Av	None.		



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<u>Ingredients</u>	CAS No	Т		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Erythrosin B	16423-68-0	N/Av	N/Av	None.
Fast Green FCF	2353-45-9	N/Av	N/Av	None.

Persistence and degradability

: No data is available on the product itself.

**Bioaccumulation potential** : No data is available on the product itself.

Components	Partition coefficent n-octanol/ater (log Kow)	Bioconcentration factor (BCF)
Erythrosin B (CAS 16423-68-0)	-0.05	N/Av
Fast Green FCF (CAS 2353-45-9)	-3.22	2.55

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

# SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** 

: Handle waste according to recommendations in Section 7. Empty containers may

contain hazardous residues.

**Methods of Disposal** 

: Dispose in accordance with all applicable federal, state, provincial and local

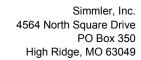
regulations.

**RCRA** 

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and

disposal method.

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	$\bigotimes$
TDG Additional information	None.	!			
49CFR/DOT	None.	Not regulated.	not regulated	none	$\otimes$
49CFR/DOT Additional information	None.	!			
IMDG	None.	Not regulated.	not regulated	none	$\otimes$





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IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	$\otimes$
ICAO/IATA Additional information	None.				

Special precautions for user

: Appropriate advice on safety must accompany the package.

**Environmental hazards** 

: See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

# **SECTION 15 - REGULATORY INFORMATION**

### **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

	TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS# In	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Erythrosin B	16423-68-0	Yes	N/Ap	N/Av	No	N/Ap	
Fast Green FCF	2353-45-9	Yes	N/Ap	N/Av	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: None.

# US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS#	Californi	a Proposition 65		State	"Right to	Know" L	ists	
ingredients	CAG II	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Erythrosin B	16423-68-0	No	N/Ap	No	No	No	No	No	No
Fast Green FCF	2353-45-9	No	N/Ap	Yes	No	No	No	No	No

### **Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.



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### **International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Erythrosin B	16423-68-0	240-474-8	Present	Present	(5)-1503; (5)-1596	KE-10872	Present	No information available.
Fast Green FCF	2353-45-9	219-091-5	Present	Present	(5)-5228	KE-07714	Present	No information available.

### SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CNS: Central Nervous System DOT: Department of Transportation EPA: Environmental Protection Agency

EINECS: European Inventory of Existing Commercial chemical Substances

IARC: International Agency for Research on Cancer

IBC: Intermediate Bulk Container

IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices for 2015.

2. International Agency for Research on Cancer Monographs, searched 2015

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015

(Chempendium, HSDB and RTECs).

4. Material Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists - 2015.

6. California Proposition 65 List - 2015

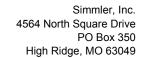
Preparation Date (mm/dd/yyyy)

References

: 08/05/2015

Other special considerations for handling

: Provide adequate information, instruction and training for operators.





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# Prepared for: Simmler, Inc. 4564 North Square Drive PO Box 350 High Ridge, MO 63049 363-376-8347 Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com

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