

# SAFETY DATA SHEET

Creation Date 20-Mar-2014

Revision Date 20-Mar-2014

**Revision Number** 1

1. Identification				
Product Name	Buffered Wright Stain			
Cat No. :	3111			
Synonyms	No information available			
Recommended Use	Laboratory chemicals.			
Uses advised against No Information available Details of the supplier of the safety data sheet				
<b>Company</b> Richard Allan Scientific A Subsidiary of Thermo Fisher Scient 4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270	Emergency Telephone Number Chemtrec US: (800) 424-9300 ific Chemtrec EU: 001 (202) 483-7616			

### 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Skin Corrosion/irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 1
Target Organs - Respiratory system, Central nervous system (	CNS), Optic nerve.
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Liver, spleen, Blood.	

### Label Elements

#### Signal Word Danger

### **Hazard Statements**

Highly flammable liquid and vapor Toxic if swallowed Toxic in contact with skin Causes severe skin burns and eye damage Toxic if inhaled May cause respiratory irritation May cause drowsiness or dizziness Causes damage to organs Causes damage to organs through prolonged or repeated exposure



### **Precautionary Statements**

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

Response

Immediately call a POISON CENTER or doctor/physician

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

### Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion** 

### Rinse mouth

Do NOT induce vomiting

### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

### Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. Cannot be made non-poisonous. WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Methyl alcohol	67-56-1	70 - 75
Acetic acid	64-19-7	15 - 18
Glycerol triacetate	102-76-1	7 - 10
Polyethylene glycol	25322-68-3	3 - 5
Stains, biological, Wright's	68988-92-1	< 1.0
Sodium acetate	127-09-3	<1
Ethanamine, N-ethyl-, hydrochloride	660-68-4	<1

Eosin-Y Dye		17372-87-1	<1			
4. First-aid measures						
General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.					
Skin Contact	attention is re MEDICAL AI persists, call	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician immediately. SPEEDY ACTION IS CRITICAL, GET MEDICAL AID IMMEDIATELY. If symptoms persist, call a physician. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while emoving all contaminated clothes and shoes.				
Inhalation	resuscitation respiratory m attention is n	o fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth ation if victim ingested or inhaled the substance; induce artificial respiration with a ory medical device. Immediate medical attention is required. Immediate medical n is not required. Move to fresh air in case of accidental inhalation of vapors. If ms persist, call a physician.				
Ingestion	mouth with w	Do not induce vomiting. Call a physician or Poison Control Center immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.				
Most important symptoms/effects	concentration vomiting: Pro contraindicat Ingestion cau perforation	Breathing difficulties. Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				
Notes to Physician	Treat sympto	matically				
		re-fighting measures				
Suitable Extinguishing Media	CO 2, dry che containers.	mical, dry sand, alcohol-resistant foa	m. Use water spray to cool unopened			
Unsuitable Extinguishing Media	Water may be ineffective					
Flash Point Method -	12 °C / 53 No informatio					
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	455 °C / 8 31.0 vol % 6.0 vol % t No informatio No informatio	on available				

**Specific Hazards Arising from the Chemical** Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

### **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Formaldehyde

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>	Health 3	Flammability 3	<b>Instability</b> 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Persona	I Precautions	measures against static dis	uipment. Remove all sources c charges. Do not get in eyes, o eep people away from and upw	n skin, or on clothing. Evacuate
Environi	mental Precautions	information. Do not flush in	the environment. See Section to surface water or sanitary set o do so. Prevent product from o	wer system. Prevent further
Methods Up	o for Containment and Cl		ion. Soak up with inert absorbe charges. Keep in suitable, clos	ent material. Take precautionary ed containers for disposal.
		7. Handling a	and storage	
Handling	3	protective equipment. Keep Take precautionary measu	res against static discharges. E skin, or on clothing. Pay atten	urfaces and sources of ignition.
Storage		and sources of ignition. Fla	sed in a dry, cool and well-vent mmables area. Keep container in properly labeled containers.	

### 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m <sup>3</sup> (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m <sup>3</sup> Skin TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 325 mg/m <sup>3</sup>
Acetic acid	TWA: 10 ppm STEL: 15 ppm	(Vacated) TWA: 10 ppm (Vacated) TWA: 25 mg/m³ TWA: 10 ppm TWA: 25 mg/m³	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m <sup>3</sup> STEL: 15 ppm STEL: 37 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m <sup>3</sup> STEL: 250 ppm STEL: 328 mg/m <sup>3</sup> Skin	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 310 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 250 ppm Skin
Acetic acid	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup> STEL: 15 ppm STEL: 37 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup> STEL: 15 ppm STEL: 37 mg/m <sup>3</sup>	TWA: 10 ppm STEL: 15 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration

### NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles. Face-shield.
Skin and body protection	Long sleeved clothing. Apron. Impervious gloves.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

# 9. Physical and chemical properties

<b>.</b>	· · ·
Physical State	Liquid
Appearance	Purple
Odor	Alcohol-like
Odor Threshold	No information available
рН	6 - 7
Melting Point/Range	-94 °C / -137.2 °F
Boiling Point/Range	65 °C / 149 °F @ 760 mmHg
Flash Point	12 °C / 53.6 °F
Evaporation Rate	4.6 (Butyl Acetate = 1.0)
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	31.0 vol %
Lower	6.0 vol %
Vapor Pressure	97.25 mmHg @ 20 °C
Vapor Density	1.11 (Air = 1.0)
Relative Density	0.7914
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	455 °C / 851 °F
Decomposition Temperature	No information available
Viscosity	No information available

# 10. Stability and reactivity

Reactive Hazard None known, based on information available	
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Heat, flames and sparks.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Metals, Peroxides
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Formaldehyde
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

# 11. Toxicological information

### Acute Toxicity

				h ha fan th's mussloset			
Product Information		No acute toxicity information is available for this product					
Oral LD50 Dermal LD50		Category 3. ATE = $50 - 300 \text{ mg/kg}$ .					
		Category 3. ATE = $200 - 1000 \text{ mg/kg}$ . Based on ATE data, the classification criteria are not met. ATE > $20 \text{ mg/l}$ .					
Vapor LC50 Component Informa	tion	Daseu UNATE Ual		i chiena are not mei	ATE > 20 mg/i.		
Componen		LD50 Oral		LD50 Dermal	LC50	Inhalation	
Methyl alcoh		6200 mg/kg (Rat)		0 mg/kg (Rabbit)		om (Rat) 4 h	
						om (Rat) 8 h	
Acetic acid		3310 mg/kg (Rat)		) mg/kg (Rabbit)		/L (Rat) 4 h	
Glycerol triace Polyethylene g		3000 mg/kg (Rat) 28 g/kg (Rat)		) mg/kg (Rabbit) (Rabbit)20 mL/kg (		/L (Rat)4h ot listed	
Polyethylene g	lycol	20 9/kg ( Rai )	20 g/kg	Rabbit )		i listeu	
Sodium aceta	ate	3530 mg/kg (Rat)	10	g/kg (Rabbit)	30 g/m <sup>3</sup>	<sup>3</sup> (Rat)1 h	
Ethanamine, N-ethyl-, h	ydrochloride	9900 mg/kg (Rat)		Not listed	-	ot listed	
Toxicologically Syn	ergistic	No information ava	ailable				
Products							
Delayed and immed	iate effects as v	vell as chronic effe	cts from short an	d long-term expos	ure		
Irritation		Irritating to eyes ar	nd ekin				
Initation		initiating to eyes a					
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether ea	ach agency has liste	d any ingredient	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed	
Acetic acid	64-19-7	Not listed	Not listed	Not listed	Not listed	Not listed	
Glycerol triacetate	102-76-1	Not listed	Not listed	Not listed	Not listed	Not listed	
Polyethylene glycol	25322-68-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Stains, biological,	68988-92-1	Not listed	Not listed	Not listed	Not listed	Not listed	
Wright's	00900-92-1	Not listed	Not listed	Not listed	Not listed	Not listed	
Sodium acetate	127-09-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Ethanamine, N-ethyl-,	660-68-4	Not listed	Not listed	Not listed	Not listed	Not listed	
hydrochloride	17070 07 4	No. Pateri	Net Peterd	Net Peterl	Net Peterd	No. Pate d	
Eosin-Y Dye	17372-87-1	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		Mutagenic effects	Mutagenic effects have occurred in humans.				
Reproductive Effect	s	Experiments have	shown reproductiv	e toxicity effects on	laboratory anima	ls	
	.0		onown roproduouv	e texicity encode on	laboratory anime		
<b>Developmental Effe</b>	cts	Developmental eff	ects have occurred	l in experimental ani	imals.		
Torotogonicity		<b>—</b>					
Teratogenicity		Teratogenic effects have occurred in experimental animals.					
STOT - single expos	sure	Respiratory system Central nervous system (CNS) Optic nerve					
STOT - repeated exp		Kidney Liver spleen Blood					
Aspiration hazard		No information available					
Symptoms / effects	both acute and	d Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,					
delayed	,			luct is a corrosive m			
				perforation of stoma			
				e swelling, severe da			
		danger of perforati					
Endocrine Disrupto	r Information	No information ava					
<b>- - -</b>							
Other Adverse Effect	ts			ted in experimental	animals. See act	ual entry in	
		RTECS for comple	ete information.				

# 12. Ecological information

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h
Acetic acid	-	Pimephales promelas: LC50 = 88 mg/L/96h Lepomis macrochirus: LC50 = 75 mg/L/96h	phosphoreum: EC50 = 8.8	EC50 = 95 mg/L/24h
Glycerol triacetate	Not listed	170 mg/L LC50 48 h	Not listed	380 mg/L EC50 = 48 h
Polyethylene glycol	Not listed	LC50 = 10 g/L/96h	Not listed	Not listed
Sodium acetate	-	5000 mg/L LC50 24 h	= 7200 mg/L EC50 Pseudomonas putida 18 h	1000 mg/L EC50 > 48 h

Persistence and Degradability Bioaccumulation/ Accumulation No information available No information available.

### Mobility

Component	log Pow
Methyl alcohol	-0.74
Acetic acid	-0.2
Sodium acetate	-4.22

### 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl alcohol - 67-56-1	U154	-

## 14. Transport information

DOT	
UN-No	UN1230
Proper Shipping Name	METHANOL SOLUTION
Hazard Class	3
Packing Group	II
TDG	
UN-No	UN1230
Proper Shipping Name	METHANOL SOLUTION
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II
IATA	
UN-No	UN1230
Proper Shipping Name	METHANOL SOLUTION
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II
IMDG/IMO	
UN-No	UN1230

Proper Shipping Name	METHANOL SOLUTION
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

### 15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Methyl alcohol	Х	Х	-	200-659-6	-		Х	Х	Х	Х	Х
Acetic acid	Х	Х	-	200-580-7	-		Х	Х	Х	Х	Х
Glycerol triacetate	Х	Х	-	203-051-9	-		Х	Х	Х	Х	Х
Polyethylene glycol	X	X	-	-		>1<4.5 mol ethoxyl ated units, consist ing of 50% w/w or more of specie s of the same molecu lar weight		X	X	X	X
Stains, biological, Wright's	Х	Х	-	273-541-5	-		Х	-	Х	Х	-
Sodium acetate	Х	Х	-	204-823-8	-		Х	Х	Х	Х	Х
Ethanamine, N-ethyl-, hydrochloride	Х	Х	-	211-541-9	-		Х	Х	Х	Х	Х
Eosin-Y Dye	Х	Х	-	241-409-6	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

### TSCA 12(b)

Not applicable

**SARA 313** 

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	70 - 75	1.0

### SARA 311/312 Hazardous Categorization

Acute Health Hazard

Yes

Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **Clean Water Act**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Acetic acid	Х	5000 lb	-	-

### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	Х		-

**OSHA** Occupational Safety and Health Administration Not applicable

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component		Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol		5000 lb	-
Acetic acid		5000 lb	-
California Proposition 65	This product	does not contain any Proposition 65 ch	amicals

California Proposition 65 This product does not contain any Proposition 65 chemicals

Component	CAS-No	California F	California Prop. 65		65 NSRL	Category	
Methyl alcohol	67-56-1	Developm	Developmental		Developmental -		Developmental
State Right-to-Know					·		
Component	Massachusetts	New Jersey	Pennsy	ylvania	Illinois	Rhode Island	
Methyl alcohol	Х	Х	>	Κ	Х	Х	
Acetic acid	Х	Х	>	K	-	Х	

### U.S. Department of Transportation

Reportable Quantity (RQ):	Υ
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### Other International Regulations

#### Mexico - Grade

Serious risk, Grade 3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS	Hazard	Class
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B2 Flammable liquid D2A Very toxic materials D1A Very toxic materials E Corrosive material



16. Other information

A Subsidiary of Thermo Fisher Scientific

Prepared By

Creation Date Revision Date Print Date Revision Summary Tel: (800) 522-7270 20-Mar-2014 20-Mar-2014 20-Mar-2014

**Regulatory Affairs** 

Richard Allan Scientific

20-Mar-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

# **End of SDS**