




**Section 1. Identification**

<b>1.1 Product Identifier</b>	Product Name: Wright-Giemsa Solution Product Number: SSC1191	
<b>1.2 Intended use</b>	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.	
<b>1.3 Details of the supplier of the safety data sheet</b>	<b>Manufacturer</b>	Cancer Diagnostics, Inc.
	<b>Address</b>	116 Page Point Circle Durham, NC 27703
	<b>Phone Number</b>	1-877-846-5393
	<b>Fax Number</b>	1-877-817-1716
	<b>e-mail</b>	<a href="mailto:compliance@cancerdiagnostics.com">compliance@cancerdiagnostics.com</a>
	<b>Website</b>	<a href="http://www.cancerdiagnostics.com/sds">www.cancerdiagnostics.com/sds</a>

**Section 2. Hazards Identification**

<b>2.1 GHS Classification</b>	Flammable liquids (Category 2) – H225 Acute toxicity, Inhalation (Category 3) – H331 Acute toxicity, Dermal (Category 3) – H311 Acute toxicity, Oral (Category 3) – H301 Skin irritation (Category 2) – H315 Eye irritation (Category 2) – H320 Specific target organ toxicity - single exposure (Category 1) – H370	
<b>Classification: Directive 1999/45/EC</b>		<b>F, R11</b> EN: Highly flammable DA: Meget brandfarlig DE: Leichtentzündlich EL: Πολύ εύφλεκτο ES: Fácilmente inflamable FR: Facilement inflammable IT: Facilmente infiammabile NL: Licht ontvlambaar PT: Facilmente inflamável SV: Mycket brandfarligt

	 <p><b>T, R23/24/25, R39/23/24/25</b>  EN: Toxic  DA: Giftig  DE: Giftig  EL: Τοξικό  ES: Tóxico  FR: Toxique  IT: Tossico  NL: Vergiftig  PT: Tóxico  SV: Giftig</p> <p>For full text of R- &amp; S- phrases: see Section 15.</p>
<p><b>2.2 Label Elements</b></p>	<p>Pictogram(s):</p>  <p>Signal Word: Danger (Contains Methanol)</p> <p>Hazard Statement(s):  H225 – Highly flammable liquid and vapour  H301 – Toxic if swallowed  H311 – Toxic in contact with skin  H331 – Toxic if inhaled  H370 – Causes damage to organs</p> <p>Hazard Statement(s) not listed on label:  H315 – Causes skin irritation  H320 – Causes eye irritation</p> <p>Precautionary statement(s):  P201 – Obtain special instructions before use.  P202 – Do not handle until all safety precautions [on SDS] have been read and understood</p> <p>Precautionary statement(s) not listed on label:  P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water  P305 + P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Get immediate medical advice/attention  P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  P260 – Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  P308 + P311 – IF exposed or concerned: Call a POISON CENTER/doctor.</p>









<b>NFPA</b> Scale: 0-4			
<b>HMIS (U.S.A.)</b> Scale: 0-4	HEALTH	2	
	FLAMMABILITY	3	
	PHYSICAL HAZARD	0	
	PERSONAL PROTECTION	G	
<b>2.3 Other Hazards</b>	<b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT. <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.		

### Section 3. Composition and Information on Ingredients

#### 3.2 Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*May contain additional active ingredients at concentrations <0.1%w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
Methanol	67-56-1	200-659-6	 Danger. 3 H225 Highly flammable liquid and vapour.  Danger. 3. H301 Toxic if swallowed. 3 H311 Toxic in contact with skin. 3 H331 Toxic if inhaled.  Danger. 1 H370 Causes damage to organs.	≤ 90
Glycerin	56-81-5	200-289-5	n/a	≤ 10
Giemsa Stain	51811-82-6	257-438-2	 Danger. 2 H318 Causes serious eye damage.  Warning. 3 H412 harmful to aquatic life with long lasting effects.	≤ 0.2
Wright's Stain	68988-92-1	273-541-5	 Warning. 4 H302 Harmful if swallowed.  Danger. 2 H318 Causes serious eye damage.  Warning. 3 H412 harmful to aquatic life with long lasting effects.	≤ 0.3

## Section 4. First Aid Measures

### 4.1 Description of first aid measures

**Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get immediate medical attention if symptoms develop or if concerned.

**Inhalation:** If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

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

See section 2.2 and 11.

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

No data available

## Section 5. Fire Fighting Measures

<b>5.1 Extinguishing Media</b>	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
<b>5.2 Special hazards arising from the substance or mixture</b>	Vapor is heavier than air and can flow along surfaces to a distant ignition source and flash back. Sensitive to static discharge. May burn with a nearly invisible flame.
<b>5.3 Advice for firefighters</b>	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

### 6.2 Environmental precautions

Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

### 6.3 Methods and materials for containment and cleaning up

Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

## Section 7. Handling and Storage

### 7.1 Precautions for safe handling.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

### 7.2 Conditions for safe storage, including any incompatibilities.

Store in well ventilated area.

Keep container tightly closed.

Store at 15-30°C.

### 7.3 Specific end use(s).

See section 1.2

## Section 8. Exposure Controls / Personal Protection

<b>8.1 Control parameters</b>	<b>Exposure Limits:</b> Methanol: <b>NIOSH REL:</b> TWA 200 ppm (260 mg/m <sup>3</sup> ) ST 250 ppm (325 mg/m <sup>3</sup> ) [skin] <b>OSHA PEL:</b> TWA 200 ppm (260 mg/m <sup>3</sup> ) <b>ACGIH TLV:</b> TWA 200 ppm (262 mg/m <sup>3</sup> ) STEL 250 ppm (328 mg/m <sup>3</sup> )
<b>8.2 Exposure controls</b>	<b>Personal Protective Equipment (PPE):</b> <b>Eye/Face protection.</b> Safety glasses or goggles are required. <b>Skin protection.</b> Protective clothing is required. <b>Hand protection.</b> Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove. <b>Respiratory protection.</b> Avoid breathing vapor. <b>Environmental exposure controls.</b> Avoid releasing large quantities into the environment. No additional information.
<b>Engineering Controls</b>	Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Dark blue
<b>Odor</b>	Alcohol odor
<b>Odor Threshold</b>	Unknown
<b>pH</b>	Unknown
<b>Melting Point/ Freezing Point</b>	Unknown
<b>Initial Boiling Point</b>	Unknown
<b>Flash Point</b>	Unknown
<b>Evaporation Rate</b>	Unknown
<b>Flammability (solid, gas)</b>	Unknown
<b>Upper/Lower Flammability Limits</b>	Unknown
<b>Vapor Pressure</b>	Unknown
<b>Vapor Density</b>	Unknown
<b>Relative Density</b>	Unknown
<b>Solubility(ies)</b>	Water
<b>Partition Coefficient: n-octanol/water</b>	Unknown
<b>Auto-Ignition Temperature</b>	Unknown
<b>Decomposition Temperature</b>	Unknown
<b>Viscosity</b>	Unknown
<b>Explosive Properties</b>	Not explosive.
<b>Oxidizing Properties</b>	Unknown

## Section 10. Stability and Reactivity

<b>10.1 Reactivity</b>	No relevant data available.
<b>10.2 Chemical Stability</b>	Stable under normal temperatures and pressures.
<b>10.3 Possibility of Hazardous Reactions</b>	No hazardous reactions known.
<b>10.4 Conditions to Avoid</b>	Fire, static electricity, direct sunlight.
<b>10.5 Incompatible Materials</b>	Strong organic acids, oxidizers, lead, aluminum.
<b>10.6 Hazardous Decomposition Materials</b>	Carbon Dioxide, Carbon Monoxide.

## Section 11. Toxicological Information

<b>11.1 Information on Toxicological Effects.</b>	<p><b>Acute Toxicity.</b>  <u>Methanol:</u>          Oral LD50          LDLO Oral - Human - 143 mg/kg          Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.          LD50 Oral - rat - 1,187 - 2,769 mg/kg          Inhalation LC50          LC50 Inhalation - rat - 4 h - 128.2 mg/l          LC50 Inhalation - rat - 6 h - 87.6 mg/l          Dermal LD50          LD50 Dermal - rabbit - 17,100 mg/kg</p> <p><b>Skin Corrosion/Irritation.</b>          Irritating to skin and mucous membranes.</p> <p><b>Serious Eye Damage/Irritation.</b>          Irritating to eye.</p> <p><b>Respiratory or skin sensitization.</b>          No relevant data available.</p> <p><b>Germ Cell Mutagenicity.</b>          No relevant data available.</p>
<b>Carcinogenicity.</b>	<p><b>International Agency for Research on Cancer (IARC).</b>          None of the components are listed.</p> <p><b>National Toxicology Program (NTP).</b>          None of the components are listed.</p>

## Section 12. Ecological Information


<b>12.1 Toxicity</b>	<p><b>Fish:</b> No relevant studies identified.  <b>Crustacea:</b> No relevant studies identified.  <b>Algae/Aquatic Plants:</b> No relevant studies identified.  <b>Other Organisms:</b> No relevant studies identified.</p>
<b>12.2 Persistence and Degradability.</b>	No relevant studies identified.
<b>12.3 Bioaccumulative Potential.</b>	No relevant studies identified.
<b>12.4 Mobility in Soil.</b>	Miscible in water. May spread in water systems. This component is non-volatile.

<b>Additional Remarks</b>	None.
<b>12.5 Results of PBT and vPvB Assessment.</b>	<b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT. <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.

### Section 13. Disposal Considerations

<b>13.1 Waste Disposal Methods.</b>	Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations.
<b>Product/Packaging Disposal.</b>	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
<b>Other Disposal Recommendations.</b>	No relevant data available.

### Section 14. Transport Information

<b>14.1 UN Number DOT, IATA,IMDG, ADR</b>	DOT: 1230 ADR/RID: 1230 IMDG: 1230 IATA: 1230
<b>14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR</b>	ADR/RID: Methanol IMDG: Methanol IATA: Methanol DOT: Methanol
<b>14.3 Transport Hazard Class(es)</b>	<b>DOT: 3 IATA: 3 IMDG: 3 ADR/RID:3</b> 
<b>14.4 Packing Group DOT, IATA,IMDG, ADR</b>	ADR/RID: II IMDG: II IATA: II DOT: II
<b>14.5 Environmental Hazards</b>	<b>Marine Pollutant:</b> No
<b>14.6 Special Precautions for User</b>	Not applicable.

### Section 15. Regulatory Information

<b>15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.</b>	
<b>Extremely Hazardous Substances; Section 355</b>	None of the components in this mixture are listed.
<b>Toxic Substances Control Act; TSCA</b>	All of the components in this mixture are listed.
<b>California Proposition 65</b>	Methanol is listed as a having developmental toxicity
<b>Right To Know Components</b>	<b>Methanol</b> Massachusetts Pennsylvania

	New Jersey <b>Glycerin</b> Massachusetts Pennsylvania New Jersey <b>Giemsa Stain</b> Pennsylvania New Jersey
<b>Other Regulations</b>	<b>SARA 313</b> Methanol
<b>15.2 Chemical Safety Assessment</b>	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
<b>R phrases</b>	<b>R11</b> EN: Highly flammable. DA: Meget brandfarlig. DE: Leichtentzündlich. EL: Πολύ εύφλεκτο. ES: Fácilmente inflamable. FR: Facilement inflammable. IT: Facilmente infiammabile. NL: Licht ontvlambaar. PT: Facilmente inflamável. SV: Mycket brandfarligt.  <b>R39/23/24/25</b> EN: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. DA: Giftigt: fare for varig alvorlig skade på helbred ved indånding, hudkontakt og indtagelse. DE: Giftig: ernste Gefahr irreversiblen Schadens durch Einatmen, Berührung mit der Haut und durch Verschlucken. EL: Τοξικό: κίνδυνος πολύ σοβαρών μόνιμων επιδράσεων όταν εισπνέεται, σε επαφή με το δέρμα και σε περίπτωση καταπόσεως. ES: Tóxico: peligro de efectos irreversibles muy graves por inhalación, contacto con la piel e ingestión. FR: Toxique: danger d'effets irréversibles très graves par inhalation, par contact avec la peau et par ingestion. IT: Tossico: pericolo di effetti irreversibili molto gravi per inalazione, a contatto con la pelle e per ingestione. NL: Vergiftig: gevaar voor ernstige onherstelbare effecten bij inademing, aanraking met de huid en opname door de mond. PT: Tóxico: perigo de efeitos irreversíveis muito graves por inalação, em contacto com a pele e por ingestão. SV: Giftigt: risk för mycket allvarliga bestående hälsoskador vid inandning, hudkontakt och förtäring.
<b>S phrases</b>	<b>S7</b> EN: Keep container tightly closed. DA: Emballagen skal holdes tæt lukket. DE: Behälter dicht geschlossen halten. EL: Το δοχείο να διατηρείται ερμητικά κλεισμένο. ES: Manténgase el recipiente bien cerrado. FR: Conserver le récipient bien fermé. IT: Conservare il recipiente ben chiuso. NL: In goed gesloten verpakking bewaren. PT: Manter o recipiente bem fechado. SV: Förpackningen förvaras väl tillsluten.  <b>S16</b> EN: Keep away from sources of ignition - No smoking. DA: Holdes væk fra antændelseskilder - Rygning forbudt. DE: Von Zündquellen fernhalten - Nicht rauchen. EL: Μακριά από πηγές ανάφλεξης - Απαγορεύεται το κάπνισμα. ES: Conservar alejado de toda llama o fuente de chispas - No fumar. FR: Conserver a l'ecart de toute flamme ou source d'étincelles - Ne pas fumer.



	<p>IT: Conservare lontano da fiamme e scintille - Non fumare.  NL: Verwijderd houden van ontstekingsbronnen - Niet roken.  PT: Manter afastado de qualquer chama ou fonte de ignição - Não fumar.  SV: Förvaras åtskilt från antändningskällor - Rökning förbjuden.</p> <p><b>S36/37</b>  EN: Wear suitable protective clothing and gloves.  DA: Brug særligt arbejdstøj og egnede beskyttelseshandsker.  DE: Bei der Arbeit geeignete Schutzhandschuhe und Schutzkleidung tragen.  EL: Φοράτε κατάλληλη προστατευτική ενδυμασία και γάντια.  ES: Úsense indumentaria y guantes de protección adecuados.  FR: Porter un vêtement de protection et des gants appropriés.  IT: Usare indumenti protettivi e guanti adatti.  NL: Draag geschikte handschoenen en beschermende kleding.  PT: Usar vestuário de protecção e luvas adequadas.  SV: Använd lämpliga skyddskläder och skyddshandskar.</p> <p><b>S45</b>  EN: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  DA: Ved ulykkestilfælde eller ved ildebefindende er omgående lægebehandling nødvendig; vis etiketten, hvis det er muligt.  DE: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen).  EL: Σε περίπτωση ατυχήματος ή αν αισθανθείτε αδιαθεσία ζητήστε αμέσως ιατρική συμβουλή (δείξτε την ετικέτα αν είναι δυνατό).  ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).  FR: En cas d'accident ou de malaise, consulter immédiatement un medecin (si possible lui montrer l'étiquette).  IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta).  NL: Bij een ongeval of indien men zich onwel voelt, onmiddellijk een arts raadplegen (indien mogelijk hem dit etiket tonen).  PT: Em caso de acidente ou de indisposição, consultar imediatamente o médico (se possível mostrar-lhe o rótulo).  SV: Vid olycksfall, illamående eller annan påverkan, kontakta omedelbart läkare. Visa om möjligt etiketten.</p>
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## Section 16. Other Information

**Revision Date:** 2019-01-11

### Notice to Reader:

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*