Section 1. Identification

1.1 Product Identifier	Product Name: Xylene-Peanut Oil Solution Product Number: SSC1036
1.2 Intended use	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.
1.3 Details of the supplier of the safety data sheet	**Manufacturer**: Cancer Diagnostics, Inc. **Address**: 116 Page Point Circle Durham, NC 27703 **Phone Number**: 1-877-846-5393 **Fax Number**: 1-877-817-1716 **e-mail**: compliance@cancerdiagnostics.com **Website**: www.cancerdiagnostics.com

Section 2. Hazards Identification

2.1 GHS Classification	Aspiration hazard (Category 1) – H304 Acute toxicity, Dermal (Category 4) – H312 Skin irritation (Category 2) – H315 Flammable liquids (Category 3) – H226 Acute toxicity, Inhalation (Category 4) – H332 Carcinogenicity (Category 2) – H351 Specific target organ toxicity, repeated exposure (Category 2) – H373 Acute aquatic toxicity (Category 2) – H401 Chronic aquatic toxicity (Category 2) – H411
Classification: Directive 1999/45/EC	 **Xn R10, R48/20/21/22, R51/53 R38, R40, S25, S37/39, S26, S45, S51, S61** EN: Harmful DA: Sundhedsskadelig DE: Gesundheitsschädlich EL: Επιβλαβές ES: Nocivo FR: Nocif **N** EN: Dangerous for the environment DA: Miljøfarlig DE: Umweltgefährlich EL: Επικίνδυνο για το περιβάλλον ES: Peligroso para el medio ambiente FR: Dangereux pour **F** EN: Highly flammable DA: Meget brandfarlig DE: Leichtentzündlich EL: Πολύ εύφλεκτο ES: Fácilmente inflamable FR: Facilement inflammable IT: Facilmente infiammabile NL: Licht ontvlambaar

	IT: Nocivo NL: Schadelijk PT: Nocivo SV: Hälsoskadlig For full text of R- & S- phrases: see Section 15.	l'environnement IT: Pericoloso per l'ambiente NL: Milieugevaarlijk PT: Perigoso para o ambiente SV: Miljöfarlig'	PT: Facilmente inflamável SV: Mycket brandfarligt

2.2 Label Elements

Pictogram(s):

Signal Word:	Danger
Hazard Statement(s):	H304 – May be fatal if swallowed and enters airways H312 – Harmful in contact with skin H226 – Flammable liquid and vapor H332 – Harmful if inhaled H351 – Suspected of causing cancer
Hazard Statement(s) not listed on label:	H373 – May cause damage to organs through prolonged or repeated exposure H315 – Causes skin irritation
Precautionary statement(s):	P202 – Do not handle until all safety precautions [on SDS] have been read and understood
Precautionary statements not listed on label:	P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water P305 + P351+P315 – 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. P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment.

NFPA
Scale: 0-4

HMIS (U.S.A.)
Scale: 0-4

HEALTH	**2**
FLAMMABILITY	**3**
PHYSICAL HAZARD	**0**
PERSONAL PROTECTION	**G**

2.3 Other Hazards

PBT: This mixture does not contain any substances that are assessed to be a PBT.
vPvB: 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	%
Xylene, CAS#	1330-20-7	215-535-7	Danger. 3 H226 Flammable liquid and vapour. Danger. 4 H312 Harmful in contact with skin., H332 Harmful if inhaled. 2 H315 Causes skin irritation. Danger. 2 H411 Toxic to aquatic life with long lasting effects. Danger 2 H351 Suspected of causing cancer. 2 H373 May cause damage to organs through prolonged or repeated exposure. 1 H304 May be fatal if swallowed and enters airways.	≤ 50
Peanut Oil, CAS#	8002-03-7	232-296-4	N/A	≤ 50

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 medical attention if irritation develops.

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

5.1 Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
5.2 Special hazards arising from the substance or mixture	Heavy flammable vapors may travel along the ground to a distant ignition source and flash back.
5.3 Advice for firefighters	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

8.1 Control parameters	**Exposure Limits:** **o-Xylene** IDLH: 900ppm NIOSH REL: TWA 100ppm ST 150 ppm OSHA PEL: TWA 100ppm
8.2 Exposure controls	**Personal Protective Equipment (PPE):** **Eye/Face protection.** Safety glasses or goggles are required. **Skin protection.** Protective clothing is required. **Hand protection.** 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. **Respiratory protection.** Avoid breathing vapor. **Environmental exposure controls.** Avoid releasing large quantities into the environment. No additional information.
Engineering Controls	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

Physical State	Liquid
Color	Slightly yellow
Odor	Xylene odor
Odor Threshold	Unknown
pH	Unknown
Melting Point/ Freezing Point	Unknown
Initial Boiling Point	Unknown

Flash Point	Unknown
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown
Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Water
Partition Coefficient: n-octanol/water	Unknown
Auto-Ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive.
Oxidizing Properties	Unknown

Section 10. Stability and Reactivity

10.1 Reactivity	No relevant data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of Hazardous Reactions	No hazardous reactions known.
10.4 Conditions to Avoid	Fire, static electricity, direct sunlight.
10.5 Incompatible Materials	Strong oxidizers, nitric acid, sulfuric acid, plastic.
10.6 Hazardous Decomposition Materials	Carbon monoxide, carbon dioxide.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	**Acute Toxicity.** No relevant data available **Skin Corrosion/Irritation.** Irritating to skin and mucous membranes. **Serious Eye Damage/Irritation.** Irritating to eye. **Respiratory or skin sensitization.** No relevant data available. **Germ Cell Mutagenicity.** No relevant data available.
Carcinogenicity.	**International Agency for Research on Cancer (IARC).** Xylenes are not classifiable as to their carcinogenicity to humans (Group 3) **National Toxicology Program (NTP).** None of the components are listed.

Section 12. Ecological Information

12.1 Toxicity	**Fish:** No relevant studies identified. **Crustacea:** No relevant studies identified. **Algae/Aquatic Plants:** No relevant studies identified.

	Other Organisms: No relevant studies identified.
12.2 Persistence and Degradability.	No relevant studies identified.
12.3 Bioaccumulative Potential.	No relevant studies identified.
12.4 Mobility in Soil.	Miscible in water. May spread in water systems. This component is non-volatile.
Additional Remarks	None.
12.5 Results of PBT and vPvB Assessment.	**PBT:** This mixture does not contain any substances that are assessed to be a PBT. **vPvB:** This mixture does not contain any substances that are assessed to be a vPvB.

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	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.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

14.1 UN Number **DOT, IATA,IMDG, ADR**	DOT: 1307 ADR/RID: 1307 IMDG: 1307 IATA: 1307
14.2 UN Proper Shipping Name **DOT, IATA,IMDG, ADR**	ADR/RID: Xylenes IMDG: Xylenes IATA: Xylenes DOT: Xylenes
14.3 Transport Hazard Class(es)	**DOT: 3** **IATA: 3** **IMDG: 3** **ADR/RID:3**
14.4 Packing Group **DOT, IATA,IMDG, ADR**	ADR/RID: II IMDG: II IATA: II DOT: II
14.5 Environmental Hazards	**Marine Pollutant:** No
14.6 Special Precautions for User	Not applicable.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.	
Extremely Hazardous	None of the components in this mixture are listed.

Substances; Section 355	
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	None of the components in this mixture are listed.
Right To Know Components	Xylene: Massachusetts Pennsylvania New Jersey California – WARNING! This product contains a chemical known to the State of California to cause cancer.
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
R phrases	**R10** EN: Flammable. DA: Brandfarlig. DE: Entzündlich. EL: Εύφλεκτο. ES: Inflamable. FR: Inflammable. IT: Infiammabile. NL: Ontvlambaar. PT: Inflamável. SV: Brandfarligt. **R48/20/21/22** EN: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. DA: Farlig: alvorlig sundhedsfare ved længere tids påvirkning ved indånding, hudkontakt og indtagelse. DE: Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen, Berührung mit der Haut und durch Verschlucken. EL: Επιβλαβές: κίνδυνος σοβαρής βλάβης της υγείας ύστερα από παρα- τεταμένη έκθεση όταν εισπνέεται, σε επαφή με το δέρμα και σε περί- πτωση καταπόσεως. ES: Nocivo: riesgo de efectos graves para la salud en caso de exposición prolongada por inhalación, contacto con la piel e ingestión. FR: Nocif: risque d'effets graves pour la sante en cas d'exposition prolongee par inhalation, par contact avec la peau et par ingestion. IT: Nocivo: pericolo di gravi danni alla salute in caso di esposizione prolungata per inalazione, a contatto con la pelle e per ingestione. NL: Schadelijk: gevaar voor ernstige schade aan de gezondheid bij langdurige blootstelling bij inademing, aanraking met de huid en opname door de mond. PT: Nocivo: risco de efeitos graves para a saúde em caso de exposição prolongada por inalação, em contacto com a pele e por ingestão. SV: Farligt: risk för allvarliga hälsoskador vid långvarig exponering genom inandning, hudkontakt och förtäring. **R51/53** EN: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DA: Giftig for organismer, der lever i vand; kan forårsage uønskede langtidsvirkninger i vandmiljøet. DE: Giftig für Wasserorganismen, kann in Gewässern längerfristig schädliche Wirkungen haben. EL: Τοξικό για τους υδρόβιους οργανισμούς, μπορεί να προκαλέσει μακροχρόνιες δυσμενείς επιπτώσεις στο υδάτινο περιβάλλον. ES: Tóxico para los organismos acuáticos, puede provocar a largo plazo efectos negativos en el medio ambiente acuático. FR: Toxique pour les organismes aquatiques, peut entraîner des effets néfastes à long terme pour l'environnement aquatique. IT: Tossico per gli organismi acquatici, può provocare a lungo termine effetti negativi per l'ambiente acquatico. NL: Vergiftig voor in het water levende organismen; kan in het aquatisch milieu op lange termijn schadelijke effecten veroorzaken.

	PT: Tóxico para os organismos aquáticos, podendo causar efeitos nefastos a longo prazo no ambiente aquático. SV: Giftigt för vattenlevande organismer, kan orsaka skadliga långtidseffekter i vattenmiljön. **R38** EN: Irritating to skin. DA: Irriterer huden. DE: Reizt die Haut. EL: Ερεθίζει το δέρμα. ES: Irrita la piel. FR: Irritant pour la peau. IT: Irritante per la pelle. NL: Irriterend voor de huid. PT: Irriterend voor de huid. SV: Irriterar huden. **R40** EN: Limited evidence of a carcinogenic effect. DA: Mulighed for kræftfremkaldende effekt. DE: Verdacht auf krebserzeugende Wirkung. EL: Ύποπτο καρκινογένεσης. ES: Posibles efectos cancerígenos. FR: Effet cancerogene suspecte ? preuves insuffisantes IT: Possibilità di effetti cancerogeni - prove insufficienti. NL: Carcinogene effecten zijn niet uitgesloten. PT: Possibilidade de efeitos cancerígenos. SV: Misstänks kunna ge cancer.
S phrases	**S25** EN: Avoid contact with eyes. DA: Undgå kontakt med øjnene. DE: Berührung mit den Augen vermeiden. EL: Αποφεύγετε την επαφή με τα μάτια. ES: Evítese el contacto con los ojos. FR: Éviter le contact avec les yeux. IT: Evitare il contatto con gli occhi. NL: Aanraking met de ogen vermijden. PT: Evitar o contacto com os olhos. SV: Undvik kontakt med ögonen. **S37/39** EN: Wear suitable gloves and eye/face protection. DA: Brug egnede beskyttelseshandsker og -briller/ansigtsskærm under arbejdet. DE: Bei der Arbeit geeignete Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. EL: Φοράτε κατάλληλα γάντια και συσκευή προστασίας ματιών/προσώπου. ES: Úsense guantes adecuados y protección para los ojos/la cara. FR: Porter des gants appropriés et un appareil de protection des yeux/du visage. IT: Usare guanti adatti e proteggersi gli occhi/la faccia. NL: Draag geschikte handschoenen en een beschermingsmiddel voor de ogen/het gezicht. PT: Usar luvas e equipamento protector para os olhos /face adequados. SV: Använd lämpliga skyddshandskar samt skyddsglasögon eller ansiktsskydd. **S26** EN: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. DA: Kommer stoffet i øjnene, skylles straks grundigt med vand og læge kontaktes. DE: Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren. EL: Σε περίπτωση επαφής με τα μάτια πλύνετέ τα αμέσως με άφθονο νερό και ζητήστε ιατρική συμβουλή. ES: En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico. FR: En cas de contact avec les yeux, laver immediatement et abondamment avec de l'eau et consulter un specialiste.

	IT: In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e consultare un medico. NL: Bij aanraking met de ogen onmiddellijk met overvloedig water afspoelen en deskundig medisch advies inwinnen. PT: Em caso de contacto com os olhos, lavar imediata e abundantemente com água e consultar um especialista. SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare. **S45** 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 immediatement un medecin (si possible lui montrer l'etiquette). 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 **S51** EN: Use only in well-ventilated areas. DA: Må kun bruges på steder med god ventilation. DE: Nur in gut gelüfteten Bereichen verwenden. EL: Να χρησιμοποιείται μόνο σε καλά αεριζόμενο χώρο. ES: Úsese únicamente en lugares bien ventilados. FR: Utiliser seulement dans des zones bien ventilées. IT: Usare soltanto in luogo ben ventilato. NL: Uitsluitend op goed geventileerde plaatsen gebruiken. PT: Utilizar somente em locais bem ventilados. SV: Sörj för god ventilation **S61** EN: Avoid release to the environment. Refer to special instructions/Safety data sheets. DA: Undgå udledning til miljøet. Se særlig vejledning/leverandørbrugsanvisning. DE: Freisetzung in die Umwelt vermeiden. Besondere Anweisungen einholen/Sicherheitsdatenblatt zu Rate ziehen. EL: Αποφύγετε την ελευθέρωσή του στο περιβάλλον. Αναφερθείτε σε ειδικές οδηγίες/.ελτίο δεδομένων ασφαλείας. ES: Evítese su liberación al medio ambiente. Recábense instrucciones específicas de la ficha de datos de seguridad. FR: Eviter le rejet dans l'environnement. Consulter les instructions speciales/la fiche de donnees de securite. IT: Non disperdere nell`ambiente. Riferirsi alle istruzioni speciali/ schede informative in materia di sicurezza. NL: Voorkom lozing in het milieu. Vraag om speciale instructies/veiligheidskaart. PT: Evitar a libertação para o ambiente. Obter instruções específicas/fichas de segurança. SV: Undvik utsläpp till miljön. Läs särskilda instruktioner/varuinformationsblad.

Section 16. Other Information

Revision Date: 2019-01-11

Notice to Reader:

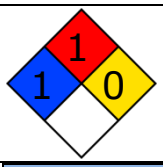
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Section 1. Identification

1.1 Product Identifier	Product Name: Methylene Blue Solution Product Number: SSC1096
1.2 Intended use	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.
1.3 Details of the supplier of the safety data sheet	**Manufacturer**: Cancer Diagnostics, Inc. **Address**: 116 Page Point Circle Durham, NC 27703 **Phone Number**: 1-877-846-5393 **Fax Number**: 1-877-817-1716 **e-mail**: compliance@cancerdiagnostics.com **Website**: www.cancerdiagnostics.com

Section 2. Hazards Identification

2.1 GHS Classification	Skin irritation (Category 2) – H315 Eye irritation (Category 2) – H319 Specific target organ toxicity (Category 3), Central nervous system - H336
Classification: Directive 1999/45/EC	 **Xi R36/38; S7, S24/25, S26, S46** EN: Irritant DA: Lokalirriterende DE: Reizend EL: Ερεθιστικό ES: Irritante FR: Irritant IT: Irritante NL: Irriterend PT: Irritante SV: Irriterande For full text of R- & S- phrases: see Section 15.

2.2 Label Elements	Pictogram(s): Signal word: Warning Hazard statement(s): H315 – Causes skin irritation H319 – Causes serious eye irritation H336 – May cause drowsiness or dizziness Precautionary statement(s): P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
NFPA Scale: 0-4	
HMIS (U.S.A.) Scale: 0-4	HEALTH 1 FLAMMABILITY 1 PHYSICAL HAZARD 0 PERSONAL PROTECTION D
2.3 Other Hazards	**PBT:** This mixture does not contain any substances that are assessed to be a PBT. **vPvB:** 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	%
Ethanol	64-17-5	200-578-6	Danger. 2 H225 Highly flammable liquid and vapour.	≤ 12
Isopropyl Alcohol	67-63-0	200-661-7	Warning. 2. H319 Causes serious eye irritation. 3. H336 May cause drowsiness or dizziness. Danger. 3 H225 Highly flammable liquid and vapour.	≤ 0.5
Methylene Blue	7220-79-3	200-515-2	Warning. 4 H302 Harmful if	≤ 0.2

			swallowed. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation. 3 H335 May cause respiratory irritation.	

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. Get immediate medical attention if irritation persists.

Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

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

5.1 Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
5.2 Special hazards arising from the substance or mixture	No unusual fire or explosion hazards expected.
5.3 Advice for firefighters	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

8.1 Control parameters	**Exposure Limits:** Ethanol: **NIOSH REL**: 1000 ppm (1900 mg/m^3) TWA **OSHA PEL**: 1000 ppm (1900 mg/m^3) TWA **ACGIH TLV**: 1000ppm (1900mg/m^3) TWA Isopropyl Alcohol: **NIOSH REL**: TWA 400 ppm (980 mg/m^3) ST 500 ppm (1225 mg/m^3) **OSHA PEL**: TWA 400 ppm (980 mg/m^3) **ACGIH TLV:** TWA 200 ppm STEL 400 ppm
8.2 Exposure controls	**Personal Protective Equipment (PPE):** **Eye/Face protection.** Safety glasses or goggles are required. **Skin protection.** Protective clothing is required. **Hand protection.** 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. **Respiratory protection.** Avoid breathing vapor. **Environmental exposure controls.** Avoid releasing large quantities into the environment. No additional information.
Engineering Controls	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

Physical State	Liquid
Color	Dark blue
Odor	Odorless
Odor Threshold	Unknown
pH	Unknown
Melting Point/ Freezing Point	Unknown
Initial Boiling Point	Unknown
Flash Point	Unknown
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown
Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown

Solubility(ies)	Water
Partition Coefficient: n-octanol/water	Unknown
Auto-Ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive.
Oxidizing Properties	Unknown

Section 10. Stability and Reactivity

10.1 Reactivity	No relevant data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of Hazardous Reactions	No hazardous reactions known.
10.4 Conditions to Avoid	Fire, static electricity, direct sunlight.
10.5 Incompatible Materials	Oxidizing agents. Metal hydrides.
10.6 Hazardous Decomposition Materials	Carbon Dioxide. Carbon Monoxide.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	**Acute Toxicity.** No relevant data available **Skin Corrosion/Irritation.** Irritating to skin and mucous membranes. **Serious Eye Damage/Irritation.** Seriously irritating to the eye. **Respiratory or skin sensitization.** No relevant data available. **Germ Cell Mutagenicity.** No relevant data available.
Carcinogenicity.	**International Agency for Research on Cancer (IARC).** Isopropyl Alcohol is listed as Group 3 – not Classifiable as to carcinogenicity in humans. **National Toxicology Program (NTP).** None of the components are listed.

Section 12. Ecological Information

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

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

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	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.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

14.1 UN Number **DOT, IATA,IMDG, ADR**	DOT: 1193 IATA: Not dangerous goods IMDG: Not dangerous goods
14.2 UN Proper Shipping Name **DOT, IATA,IMDG, ADR**	DOT: Combustible liquid, n.o.s. (Ethanol)
14.3 Transport Hazard Class(es)	DOT: 1193
14.4 Packing Group **DOT, IATA,IMDG, ADR**	DOT: III
14.5 Environmental Hazards	**Marine Pollutant:** No
14.6 Special Precautions for User	Not applicable.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.	
Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	None of the components in this mixture are listed.
Right To Know Components	Ethanol CAS# 64-17-5 Massachusetts Pennsylvania New Jersey
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
Other Regulations:	Ethanol: OSHA: Flammable liquid, Target Organ Effect, Irritant.
R phrases	**R36/38** EN: Irritating to eyes and skin.

	DA: Irriterer øjnene og huden DE: Reizt die Augen und die Haut. EL: Ερεθίζει τα μάτια και το δέρμα. ES: Irrita los ojos y la piel. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. NL: Irriterend voor de ogen en de huid. PT: Irritante para os olhos e pele. SV: Irriterar ögonen och huden.
S phrases	**S7** 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. **S16** 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'etincelles - Ne pas fumer. 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. **S24/25** EN: Avoid contact with skin and eyes. DA: Undgå kontakt med huden og øjnene. DE: Berührung mit den Augen und der Haut vermeiden. EL: Αποφεύγετε επαφή με το δέρμα και με τα μάτια. ES: Evítese el contacto con los ojos y la piel. FR: Éviter le contact avec la peau et las yeux. IT: Evitare il contatto con gli occhi e con la pelle. NL: Aanraking met de ogen en de huid vermijden. PT: Evitar o contacto com a pele e os olhos. SV: Undvik kontakt med huden och ögonen. **S26** EN: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. DA: Kommer stoffet i øjnene, skylles straks grundigt med vand og læge kontaktes. DE: Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren. EL: Σε περίπτωση επαφής με τα μάτια πλύνετέ τα αμέσως με άφθονο νερό και ζητήστε ιατρική συμβουλή. ES: En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico. FR: En cas de contact avec les yeux, laver immediatement et abondamment avec de l'eau et consulter un specialiste. IT: In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e consultare un medico. NL: Bij aanraking met de ogen onmiddellijk met overvloedig water afspoelen en deskundig medisch advies inwinnen. PT: Em caso de contacto com os olhos, lavar imediata e abundantemente com água e consultar um especialista. SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare.

	S46 EN: If swallowed, seek medical advice immediately and show this container or label. DA: Ved indtagelse, kontakt odūmgåænde læge og vis denne beholder eller etiket. DE: Bei Verschlucken sofort ärztilichen Rat einholen und Verpackung odor Etikett vorzeigen. EL: Σε περίπτωση κατάποσης ζητήστε αμέσως ιατρική συμβουλή και δείξτε αυτό το δοχείο ή την ετικέτα. ES: En caso de ingestión, acúdase inmediatamente al medico y muéstresele la etiqueta o el envase. FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette. IT: In caso d'ingertione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta. NL: In geval van inslikken onmiddellijk een arts raadplegen en verpakking of etiket tonen. PT: Em caso de ingestão, consultar imediatamente o médico e mostrar-lhe a embalagem ou o rótulo. SV: Vid förtäring kontakta genast läkare och visa denna förpackning eller etiketten.

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.

Section 1. Identification

1.1 Product Identifier	Product Name: Carbol Fuchsin Solution Product Number: SSC1055
1.2 Intended use	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.
1.3 Details of the supplier of the safety data sheet	**Manufacturer**: Cancer Diagnostics, Inc. **Address**: 116 Page Point Circle Durham, NC 27703 **Phone Number**: 1-877-846-5393 **Fax Number**: 1-877-817-1716 **e-mail**: compliance@cancerdiagnostics.com **Website**: www.cancerdiagnostics.com/sds

Section 2. Hazards Identification

2.1 GHS Classification	Skin irritation (Category 2) – H315 Serious eye damage (Category 1) – H318 Germ cell mutagenicity (Category 2) – H341 Carcinogenicity (Category 1B) – H351 Specific target organ toxicity (H373)
Classification: Directive 1999/45/EC	 **Xn R41, R20/21/22, R45, R46, R68; S7, S24/25, S26, S28, S36/37/39, S45** EN: Harmful DA: Sundhedsskadelig DE: Gesundheitsschädlich EL: Επιβλαβές ES: Nocivo FR: Nocif IT: Nocivo NL: Schadelijk PT: Nocivo SV: Hälsoskadlig For full text of R- & S- phrases: see Section 15.

2.2 Label Elements	Pictogram(s): Signal word: Warning Hazard statement(s): H315 – Causes skin irritation H318 – Causes serious eye damage H341 – Suspected of causing genetic defects H351 – Suspected of causing cancer Hazard statement(s) not listed on label: H373 – May cause damage to organs through prolonged or repeated exposure. Precautionary statement(s): P202 – Do not handle until all safety precautions have been read and understood. P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P337 + P313 - IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
NFPA **Scale: 0-4**	
HMIS (U.S.A.) **Scale: 0-4**	HEALTH **3** FLAMMABILITY **0** PHYSICAL HAZARD **0** PERSONAL PROTECTION **H**
2.3 Other Hazards	**PBT:** This mixture does not contain any substances that are assessed to be a PBT. **vPvB:** 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	%
Ethanol	64-17-5	200-578-6	Danger. 2 H225 Highly flammable liquid and vapour.	≤ 10
Phenol	108-95-2	203-632-7	Danger. 3 H311 Toxic in contact with skin. 3 H331 Toxic if inhaled. Warning. 2 H341Suspected of causing genetic defects. STOT RE, 2 H371 May cause damage	≤ 5

			to organs. 2.H373 Causes damage to organs through prolonged or repeated exposure. Danger. H314 Causes severe skin burns and eye damage. Warning. 4 H302 Harmful if swallowed. Warning. H402 Harmful to aquatic life.	
Fuchsin, Basic	632-99-5	211-189-6	Warning. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation. 3 H335 May cause respiratory irritation. Danger. 1A H350 May cause cancer.	≤ 0.5

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 medical attention if irritation develops.

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

5.1 Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
5.2 Special hazards arising from the substance or mixture	No unusual fire or explosion hazards expected.
5.3 Advice for firefighters	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

8.1 Control parameters	**Exposure Limits:** Ethanol: **NIOSH REL**: 1000 ppm (1900 mg/m^3) TWA **OSHA PEL**: 1000 ppm (1900 mg/m^3) TWA **ACGIH TLV**: 1000ppm (1900mg/m^3) TWA Phenol: NIOSH REL : TWA 5 ppm (19 mg/m^3) C 15.6 ppm (60 mg/m^3) [15-minute] [skin] OSHA PEL : TWA 5 ppm (19 mg/m^3) [skin]
8.2 Exposure controls	**Personal Protective Equipment (PPE):** **Eye/Face protection.** Safety glasses or goggles are required. **Skin protection.** Protective clothing is required. **Hand protection.** 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. **Respiratory protection.** Avoid breathing vapor. **Environmental exposure controls.** Avoid releasing large quantities into the environment. No additional information.
Engineering Controls	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

Physical State	Liquid

Color	Opaque red
Odor	Odor of Phenol – tarry sweet
Odor Threshold	Unknown
pH	Unknown
Melting Point/ Freezing Point	Unknown
Initial Boiling Point	Unknown
Flash Point	Unknown
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown
Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Water
Partition Coefficient: n-octanol/water	Unknown
Auto-Ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive.
Oxidizing Properties	Unknown

Section 10. Stability and Reactivity

10.1 Reactivity	No relevant data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of Hazardous Reactions	No hazardous reactions known.
10.4 Conditions to Avoid	Fire, static electricity, direct sunlight.
10.5 Incompatible Materials	Strong oxidizing agents.
10.6 Hazardous Decomposition Materials	Carbon oxides, Sulphur oxides.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	**Acute Toxicity.** No relevant data available **Skin Corrosion/Irritation.** Corrosive to skin and mucous membranes. **Serious Eye Damage/Irritation.** Corrosive to eye. **Respiratory or skin sensitization.** No relevant data available. **Germ Cell Mutagenicity.** No relevant data available.
Carcinogenicity.	**International Agency for Research on Cancer (IARC).** Group 2B: Possibly carcinogenic to humans (C.I. Basic red 9)

	Group 3: Not classifiable as to its carcinogenicity to humans (Phenol) **National Toxicology Program (NTP).** Reasonably anticipated to be a human carcinogen (C.I. Basic red 9)

Section 12. Ecological Information

12.1 Toxicity	**Fish:** No relevant studies identified. **Crustacea:** No relevant studies identified. **Algae/Aquatic Plants:** No relevant studies identified. **Other Organisms:** No relevant studies identified.
12.2 Persistence and Degradability.	No relevant studies identified.
12.3 Bioaccumulative Potential.	No relevant studies identified.
12.4 Mobility in Soil.	Miscible in water. May spread in water systems. This component is non-volatile.
Additional Remarks	None.
12.5 Results of PBT and vPvB Assessment.	**PBT:** This mixture does not contain any substances that are assessed to be a PBT. **vPvB:** This mixture does not contain any substances that are assessed to be a vPvB.

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	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.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

14.1 UN Number **DOT, IATA,IMDG, ADR**	DOT: Not dangerous goods. ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.
14.2 UN Proper Shipping Name **DOT, IATA,IMDG, ADR**	ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. DOT: Not dangerous goods.
14.3 Transport Hazard Class(es)	**DOT:** Not dangerous goods. **IATA:** Not dangerous goods. **IMDG:** Not dangerous goods. **ADR/RID:** Not dangerous goods.
14.4 Packing Group **DOT, IATA,IMDG, ADR**	ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. DOT: Not dangerous goods.
14.5 Environmental Hazards	**Marine Pollutant:** No
14.6 Special Precautions for User	Not applicable.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.	
Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	None of the components in this mixture are listed.
Right To Know Components	Massachusetts: Ethanol CAS #: 64-17-5 Phenol CAS #: 108-95-2 Pennsylvania: Ethanol CAS #: 64-17-5 Phenol CAS #: 108-95-2 New Jersey: Ethanol CAS #: 64-17-5 Phenol CAS #: 108-95-2
Other Regulations	SARA 302 Components: Phenol CAS #: 108-95-2 SARA 313 Components: Phenol CAS #: 108-95-2
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
R phrases	**R41** EN: Risk of serious damage to eyes. DA: Risiko for alvorlig øjenskade. DE: Gefahr ernster Augenschäden. EL: Κίνδυνος σοβαρών οφθαλμικών βλαβών. ES: Riesgo de lesiones oculares graves. FR: Risque de lésions oculaires graves. IT: Rischio di gravi lesioni oculari. NL: Gevaar voor ernstig oogletsel. PT: Risco de lesões oculares graves. SV: Risk för allvarliga ögonskador. **R20/21/22** EN: Harmful by inhalation, in contact with skin and if swallowed. DA: Farlig ved indånding, ved hudkontakt og ved indtagelse. DE: Gesundheitsschädlich beim Einatmen, Verschlucken und Berührung mit der Haut. EL: Επιβλαβές όταν εισπνέεται, σε επαφή με το δέρμα και σε περίπτωση καταπόσεως. ES: Nocivo por inhalación, por ingestión y en contacto con la piel. FR: Nocif par inhalation, par contact avec la peau et par ingestion. IT: Nocivo per inalazione, contatto con la pelle e per ingestione. NL: Schadelijk bij inademing, opname door de mond en aanraking met de huid. PT: Nocivo por inalação, em contacto com a pele e por ingestão. SV: Farligt vid inandning, hudkontakt och förtäring. **R45** EN: May cause cancer. DA: Kan fremkalde kræft. DE: Kann Krebs erzeugen. FR: Peut provoquer le cancer. IT: Può provocare il cancro. ES: Puede causar cáncer. FR: Risque de lesions oculaires graves. IT: Rischio di gravi lesioni oculari. NL: Gevaar voor ernstig oogletsel. PT: Risco de lesões oculares graves.

	SV: Risk för allvarliga ögonskador. **R46** EN: May cause heritable genetic damage. DA: Kan forårsage arvelige genetiske skader. DE: Kann vererbbare Schäden verursachen. FR: Peut provoquer des altérations génétiques héréditaires. IT: Può provocare alterazioni genetiche ereditarie. ES: Puede causar alteraciones genéticas hereditarias. FR: Peut provoquer des altérations génétiques héréditaires. IT: Può provocare alterazioni genetiche ereditarie. NL: Kan erfelijke genetische schade veroorzaken. PT: Pode causar alterações genéticas hereditárias. SV: Kan ge ärftliga genetiska skador. **R68** EN: Possible risk of irreversible effects. DA: Mulighed for varig skade på helbred. DE: Irreversibler Schaden möglich. EL: Πιθανοί κίνδυνοι μονίμων επιδράσεων. ES: Posibilidad de efectos irreversibles. FR: Possibilite d'effets irreversibles. IT: Possibilità di effetti irreversibili. NL: Onherstelbare effecten zijn niet uitgesloten. PT: Possibilidade de efeitos irreversíveis. SV: Möjlig risk för bestående hälsoskador.
S phrases	**S7** 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. **S24/25** EN: Avoid contact with skin and eyes. DA: Undgå kontakt med huden og øjnene. DE: Berührung mit den Augen und der Haut vermeiden. EL: Αποφεύγετε επαφή με το δέρμα και με τα μάτια. ES: Evítese el contacto con los ojos y la piel. FR: Éviter le contact avec la peau et las yeux. IT: Evitare il contatto con gli occhi e con la pelle. NL: Aanraking met de ogen en de huid vermijden. PT: Evitar o contacto com a pele e os olhos. SV: Undvik kontakt med huden och ögonen. **S26** EN: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. DA: Kommer stoffet i øjnene, skylles straks grundigt med vand og læge kontaktes. DE: Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren. EL: Σε περίπτωση επαφής με τα μάτια πλύνετέ τα αμέσως με άφθονο νερό και ζητήστε ιατρική συμβουλή. ES: En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico. FR: En cas de contact avec les yeux, laver immediatement et abondamment avec de l'eau et consulter un specialiste. IT: In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e

	consultare un medico. NL: Bij aanraking met de ogen onmiddellijk met overvloedig water afspoelen en deskundig medisch advies inwinnen. PT: Em caso de contacto com os olhos, lavar imediata e abundantemente com água e consultar um especialista. SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare. **S28** EN: After contact with skin, wash immediately with plenty of water. DA: Kommer stof på huden vaskes straks med store mængder ... (angives af fabrikanten). DE: Bei Berührung mit der Haut sofort abwaschen mit viel ... (vom Hersteller anzugeben). EL: Σε περίπτωση επαφής με το δέρμα, πλυθείτε αμέσως με άφθονο ... (το είδος του υγρού καθορίζεται από τον παραγωγό). ES: En caso de contacto con la piel, lávese inmediata y abundantemente con ... (productos a especificar por el fabricante). FR: Après contact avec la peau, se laver immédiatement et abondamment avec ... (produits appropriés à indiquer par le fabricant). IT: In caso di contatto con la pelle lavarsi immediatamente ed abbondantemente con ... (prodotti idonei da indicarsi da parte del fabbricante). NL: Na aanraking met de huid onmiddellijk wassen met veel ... (aan te geven door de fabrikant). PT: Após contacto com a pele, lavar imediata e abundantemente com ... (produtos adequados a indicar pelo produtor). SV: Vid kontakt med huden tvätta genast med mycket ... (anges av tillverkaren). **S36/37/39** EN: Wear suitable protective clothing, gloves and eye/face protection. DA: Brug særligt arbejdstøj, egnede beskyttelseshandsker og -briller/ansigtsskærm. DE: Bei der Arbeit geeignete Schutzkleidung, Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. EL: Φοράτε κατάλληλη προστατευτική ενδυμασία, γάντια και συσκευή προστασίας ματιών/προσώπου ES: Úsense indumentaria y guantes adecuados y protección para los ojos/la cara. FR: Porter un vetement de protection approprie, des gants et un appareil de protection des yeux/du visage. IT: Usare indumenti protettivi e guanti adatti e proteggersi gli occhi/la faccia. NL: Draag geschikte beschermende kleding, handschoenen en een beschermingsmiddel voor de ogen/het gezicht. PT: Usar vestuário de protecção, luvas e equipamento protector para os olhos /face adequados. SV: Använd lämpliga skyddskläder, skyddshandskar samt skyddsglasögon eller ansiktsskydd. **S45** 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 immediatement un medecin (si possible lui montrer l'etiquette). 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.

Section 16. Other Information

Revision Date: 2019-01-11

Notice to Reader:

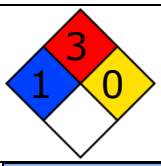
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Section 1. Identification

1.1 Product Identifier	Product Name: Acid Alcohol Solution (1%) Product Number: SSC1036
1.2 Intended use	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.
1.3 Details of the supplier of the safety data sheet	**Manufacturer**: Cancer Diagnostics, Inc. **Address**: 116 Page Point Circle Durham, NC 27703 **Phone Number**: 1-877-846-5393 **Fax Number**: 1-877-817-1716 **e-mail**: compliance@cancerdiagnostics.com **Website**: www.cancerdiagnostics.com

Section 2. Hazards Identification

2.1 GHS Classification	Serious eye irritation (Category 2A) – H319 Skin irritation (Category 2) – H315 Flammable Liquids (Category 2) – H225
Classification: Directive 1999/45/EC	 **F R11, R36, S7, S16, S24/25, S26, S36/37/39, S45** 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 For full text of R- & S- phrases: see Section 15.

2.2 Label Elements	Pictogram(s): Signal word: Danger Hazard statement(s): H303 – May be harmful if swallowed H315 – Causes skin irritation H319 – Causes serious eye irritation H225 – Highly flammable liquid and vapor Precautionary statement(s): P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. P337 + P315 – If eye irritation persists get immidiate medical advice/attention. Precautionary statement(s) not listed on label: P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
NFPA **Scale: 0-4**	
HMIS (U.S.A.) **Scale: 0-4**	HEALTH **1** FLAMMABILITY **3** PHYSICAL HAZARD **0** PERSONAL PROTECTION **G**
2.3 Other Hazards	**PBT:** This mixture does not contain any substances that are assessed to be a PBT. **vPvB:** 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	%
Ethanol	64-17-5	200-578-6	Danger. 2 H225 Highly flammable liquid and vapour.	≤ 65
Isopropyl Alcohol	67-63-0	200-661-7	Warning. 2. H319 Causes serious eye irritation. 3. H336 May cause drowsiness or dizziness. Danger. 3 H225 Highly flammable liquid and vapour.	≤ 4

Hydrochloric Acid	7647-01-0	231-595-7	Warning. 3. H335 May cause respirtory irritation. Danger. 1B. H314 Causes severe skin burns and eye damage.	≤ 1

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 medical attention if irritation develops.
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

5.1 Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
5.2 Special hazards arising from the substance or mixture	No unusual fire or explosive hazards expected
5.3 Advice for firefighters	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

8.1 Control parameters	**Exposure Limits:** ***Isopropanol:*** NIOSH REL: TWA 400 ppm (980 mg/m^3) ST 500 ppm (1225 mg/m^3) OSHA PEL: TWA 400 ppm (980 mg/m^3) ACGIH TLV: TWA 200 ppm STEL 400 ppm ***Hydrochloric Acid:*** *NIOSH REL* : C 5 ppm (7 mg/m^3) OSHA PEL : C 5 ppm (7 mg/m^3) ***Ethanol:*** NIOSH REL: 1000 ppm (1900 mg/m^3) TWA OSHA PEL: 1000 ppm (1900 mg/m^3) TWA ACGIH TLV: 1000ppm (1900mg/m^3) TWA
8.2 Exposure controls	**Personal Protective Equipment (PPE):** **Eye/Face protection.** Safety glasses or goggles are required. **Skin protection.** Protective clothing is required. **Hand protection.** 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. **Respiratory protection.** Avoid breathing vapor. **Environmental exposure controls.** Avoid releasing large quantities into the environment. No additional information.
Engineering Controls	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

Physical State	Liquid
Color	Colorless
Odor	Mild alcohol odor.
Odor Threshold	Unknown
pH	Unknown
Melting Point/ Freezing Point	Unknown
Initial Boiling Point	Unknown
Flash Point	Unknown
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown

Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Water
Partition Coefficient: n-octanol/water	Unknown
Auto-Ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive.
Oxidizing Properties	Unknown

Section 10. Stability and Reactivity

10.1 Reactivity	No relevant data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of Hazardous Reactions	No hazardous reactions known.
10.4 Conditions to Avoid	Fire, static electricity, direct sunlight.
10.5 Incompatible Materials	Metals, strong bases, acetyl chloride, acetyl bromide, nitric acid, iodine-mercuric oxide, hydrogen-palladium, chromic anhydride, magnesium.
10.6 Hazardous Decomposition Materials	Hydrogen chloride, oxides of carbon.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	**Acute Toxicity.** No relevant data available **Skin Corrosion/Irritation.** Irritating to skin and mucous membranes. **Serious Eye Damage/Irritation.** Seriously irritating to eye. **Respiratory or skin sensitization.** No relevant data available. **Germ Cell Mutagenicity.** No relevant data available.
Carcinogenicity.	**International Agency for Research on Cancer (IARC).** Isopropyl Alcohol is listed as Group 3 – not Classifiable as to carcinogenicity in humans Hydrochloric Acid is listed as Group 3 – Not classifiable as to carcinogenicity in humans **National Toxicology Program (NTP).** None of the components are listed.

Section 12. Ecological Information

12.1 Toxicity	**Fish:** No relevant studies identified. **Crustacea:** No relevant studies identified. **Algae/Aquatic Plants:** No relevant studies identified. **Other Organisms:** No relevant studies identified.
12.2 Persistence and Degradability.	No relevant studies identified.
12.3 Bioaccumulative Potential.	No relevant studies identified.
12.4 Mobility in Soil.	Miscible in water. May spread in water systems. This component is non-volatile.
Additional Remarks	None.
12.5 Results of PBT and vPvB Assessment.	**PBT:** This mixture does not contain any substances that are assessed to be a PBT. **vPvB:** This mixture does not contain any substances that are assessed to be a vPvB.

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	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.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

14.1 UN Number **DOT, IATA,IMDG, ADR**	DOT: 1170 ADR/RID: 1170 IMDG: 1170 IATA: 1170
14.2 UN Proper Shipping Name **DOT, IATA,IMDG, ADR**	ADR/RID: Ethanol Solutions IMDG: Ethanol Solutions IATA: Ethanol Solutions DOT: Ethanol Solutions
14.3 Transport Hazard Class(es)	**DOT: 3** **IATA: 3** **IMDG: 3** **ADR/RID:3**
14.4 Packing Group **DOT, IATA,IMDG, ADR**	ADR/RID: II IMDG: II IATA: II DOT: II
14.5 Environmental Hazards	**Marine Pollutant:** No
14.6 Special Precautions for User	Not applicable.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.	
Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	None of the components in this mixture are listed.
Right To Know Components	**Ethanol** Massachusetts New Jersey Pennsylvania **Isopropyl Alcohol** Massachusetts New Jersey Pennsylvania **Hydrochloric Acid** Massachusetts New Jersey Pennsylvania
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
R phrases	**R11** 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. **R36** EN: Irritating to eyes. DE: Reizt die Augen. FR: Irritant pour les yeux. IT: Irritante per gli occhi. ES: Irrita los ojos. FR: Irritant pour les yeux. IT: Irritante per gli occhi. NL: Irriterend voor de ogen. PT: Irritante para os olhos. SV: Irriterar ögonen.
S phrases	**S7** 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.

	S16 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'etincelles - Ne pas fumer. 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. **S24/25** EN: Avoid contact with skin and eyes. DA: Undgå kontakt med huden og øjnene. DE: Berührung mit den Augen und der Haut vermeiden. EL: Αποφεύγετε επαφή με το δέρμα και με τα μάτια. ES: Evítese el contacto con los ojos y la piel. FR: Éviter le contact avec la peau et las yeux. IT: Evitare il contatto con gli occhi e con la pelle. NL: Aanraking met de ogen en de huid vermijden. PT: Evitar o contacto com a pele e os olhos. SV: Undvik kontakt med huden och ögonen. **S26** EN: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. DA: Kommer stoffet i øjnene, skylles straks grundigt med vand og læge kontaktes. DE: Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren. EL: Σε περίπτωση επαφής με τα μάτια πλύνετέ τα αμέσως με άφθονο νερό και ζητήστε ιατρική συμβουλή. ES: En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico. FR: En cas de contact avec les yeux, laver immediatement et abondamment avec de l'eau et consulter un specialiste. IT: In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e consultare un medico. NL: Bij aanraking met de ogen onmiddellijk met overvloedig water afspoelen en deskundig medisch advies inwinnen. PT: Em caso de contacto com os olhos, lavar imediata e abundantemente com água e consultar um especialista. SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare. **S36/37/39** EN: Wear suitable protective clothing, gloves and eye/face protection. DA: Brug særligt arbejdstøj, egnede beskyttelseshandsker og -briller/ansigtsskærm. DE: Bei der Arbeit geeignete Schutzkleidung, Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. EL: Φοράτε κατάλληλη προστατευτική ενδυμασία, γάντια και συσκευή προστασίας ματιών/προσώπου ES: Úsense indumentaria y guantes adecuados y protección para los ojos/la cara. FR: Porter un vetement de protection approprie, des gants et un appareil de protection des yeux/du visage. IT: Usare indumenti protettivi e guanti adatti e proteggersi gli occhi/la faccia. NL: Draag geschikte beschermende kleding, handschoenen en een beschermingsmiddel voor de ogen/het gezicht. PT: Usar vestuário de protecção, luvas e equipamento protector para os olhos /face adequados. SV: Använd lämpliga skyddskläder, skyddshandskar samt skyddsglasögon eller ansiktsskydd. **S45** 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

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Revision Date: 2019-01-11

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