




Section 1. Identification

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| 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

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| 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. |




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|---------------------------------|--|--------|---|--------------|---|-----------------|---|---------------------|---|
| 2.2 Label Elements | <p>Pictogram(s): </p> <p>Signal word: Warning</p> <p>Hazard statement(s): H315 – Causes skin irritation H318 – Causes serious eye damage H341 – Suspected of causing genetic defects H351 – Suspected of causing cancer</p> <p>Hazard statement(s) not listed on label: H373 – May cause damage to organs through prolonged or repeated exposure.</p> <p>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.</p> | | | | | | | | |
| NFPA Scale: 0-4 |  | | | | | | | | |
| HMIS (U.S.A.) Scale: 0-4 | <table border="1"> <tr> <td>HEALTH</td> <td>3</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td>H</td> </tr> </table> | HEALTH | 3 | FLAMMABILITY | 0 | PHYSICAL HAZARD | 0 | PERSONAL PROTECTION | H |
| HEALTH | 3 | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | |
| PHYSICAL HAZARD | 0 | | | | | | | | |
| PERSONAL PROTECTION | H | | | | | | | | |
| 2.3 Other Hazards | <p>PBT: This mixture does not contain any substances that are assessed to be a PBT.</p> <p>vPvB: This mixture does not contain any substances that are assessed to be a vPvB.</p> | | | | | | | | |






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 H341 Suspected of causing genetic defects. STOT RE, 2 | ≤ 5 |

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|----------------|----------|-----------|---|-------|
| | | | H371 May cause damage 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

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| 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

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| <p>8.1 Control parameters</p> | <p>Exposure Limits: Ethanol: NIOSH REL: 1000 ppm (1900 mg/m³) TWA OSHA PEL: 1000 ppm (1900 mg/m³) TWA ACGIH TLV: 1000ppm (1900mg/m³) TWA Phenol: NIOSH REL : TWA 5 ppm (19 mg/m³) C 15.6 ppm (60 mg/m³) [15-minute] [skin] OSHA PEL : TWA 5 ppm (19 mg/m³) [skin]</p> |
| <p>8.2 Exposure controls</p> | <p>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.</p> |
| <p>Engineering Controls</p> | <p>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.</p> |

Section 9. Physical and Chemical Properties

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| 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

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| 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

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| 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). |

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| | 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) |
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Section 12. Ecological Information

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| 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

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| 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

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| 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

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| 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 | <p>R41 EN: Risk of serious damage to eyes. DA: Risiko for alvorlig øjensskade. 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.</p> <p>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.</p> <p>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.</p> |

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| | <p>PT: Risco de lesões oculares graves. SV: Risk för allvarliga ögonskador.</p> <p>R46 EN: May cause heritable genetic damage. DA: Kan forårsage arvelige genetiske skader. DE: Kann vererbare 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 ärflika genetiska skador.</p> <p>R68 EN: Possible risk of irreversible effects. DA: Mulighed for varig skade på helbred. DE: Irreversibler Schaden möglich. EL: Πιθανοί κίνδυνοι μόνιμων επιδράσεων. ES: Posibilidad de efectos irreversibles. FR: Possibilité d'effets irréversibles. IT: Possibilità di effetti irreversibili. NL: Onherstelbare effecten zijn niet uitgesloten. PT: Possibilidade de efeitos irreversíveis. SV: Möjlig risk för bestående hälsoskador.</p> |
| <p>S phrases</p> | <p>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.</p> <p>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 les 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.</p> <p>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 άμεσα 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 immédiatement et abondamment avec de l'eau et consulter un spécialiste.</p> |

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| | <p>IT: In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e consultare un medico.</p> <p>NL: Bij aanraking met de ogen onmiddellijk met overvloedig water afspoelen en deskundig medisch advies inwinnen.</p> <p>PT: Em caso de contacto com os olhos, lavar imediata e abundantemente com água e consultar um especialista.</p> <p>SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare.</p> <p>S28</p> <p>EN: After contact with skin, wash immediately with plenty of water.</p> <p>DA: Kommer stof på huden vaskes straks med store mængder ... (angives af fabrikanten).</p> <p>DE: Bei Berührung mit der Haut sofort abwaschen mit viel ... (vom Hersteller anzugeben).</p> <p>EL: Σε περίπτωση επαφής με το δέρμα, πλυθείτε αμέσως με άφθονο ... (το είδος του υγρού καθορίζεται από τον παραγωγό).</p> <p>ES: En caso de contacto con la piel, lávese inmediata y abundantemente con ... (productos a especificar por el fabricante).</p> <p>FR: Après contact avec la peau, se laver immédiatement et abondamment avec ... (produits appropriés à indiquer par le fabricant).</p> <p>IT: In caso di contatto con la pelle lavarsi immediatamente ed abbondantemente con ... (prodotti idonei da indicarsi da parte del fabbricante).</p> <p>NL: Na aanraking met de huid onmiddellijk wassen met veel ... (aan te geven door de fabrikant).</p> <p>PT: Após contacto com a pele, lavar imediata e abundantemente com ... (produtos adequados a indicar pelo produtor).</p> <p>SV: Vid kontakt med huden tvätta genast med mycket ... (anges av tillverkaren).</p> <p>S36/37/39</p> <p>EN: Wear suitable protective clothing, gloves and eye/face protection.</p> <p>DA: Brug særligt arbejdstøj, egnede beskyttelseshandsker og -briller/ansigtsskærm.</p> <p>DE: Bei der Arbeit geeignete Schutzkleidung, Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen.</p> <p>EL: Φοράτε κατάλληλη προστατευτική ενδυμασία, γάντια και συσκευή προστασίας ματιών/προσώπου</p> <p>ES: Úsense indumentaria y guantes adecuados y protección para los ojos/la cara.</p> <p>FR: Porter un vêtement de protection appropriée, des gants et un appareil de protection des yeux/du visage.</p> <p>IT: Usare indumenti protettivi e guanti adatti e proteggersi gli occhi/la faccia.</p> <p>NL: Draag geschikte beschermende kleding, handschoenen en een beschermingsmiddel voor de ogen/het gezicht.</p> <p>PT: Usar vestuário de protecção, luvas e equipamento protector para os olhos /face adequados.</p> <p>SV: Använd lämpliga skyddskläder, skyddshandskar samt skyddsglasögon eller ansiktsskydd.</p> <p>S45</p> <p>EN: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p>DA: Ved ulykkestilfælde eller ved ildebefindende er omgående lægebehandling nødvendig; vis etiketten, hvis det er muligt.</p> <p>DE: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen).</p> <p>EL: Σε περίπτωση ατυχήματος ή αν αισθανθείτε αδιαθεσία ζητήστε αμέσως ιατρική συμβουλή (δείξτε την ετικέτα αν είναι δυνατό).</p> <p>ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).</p> <p>FR: En cas d'accident ou de malaise, consulter immédiatement un medecin (si possible lui montrer l'etiquette).</p> <p>IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta).</p> <p>NL: Bij een ongeval of indien men zich onwel voelt, onmiddellijk een arts raadplegen (indien mogelijk hem dit etiket tonen).</p> <p>PT: Em caso de acidente ou de indisposição, consultar imediatamente o médico (se possível mostrar-lhe o rótulo).</p> <p>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.