





Section 1. Identification of the Substance/Mixture and the Company

1.1 Product Identifier	Product Name: Carbol Fuchsin Counterstain Product Number: HCFX	
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	Teomics, LLC.
	Address	Energy Research Park 5000 Gulf Freeway, Bldg 5 (114) Houston, Texas 77023
	Phone Number	800-397-3010
	e-mail	msds@teomics.com
	Website	teomics.com

Section 2. Hazards Identification

2.1 Classification: Regulation (EC) No 1272/2008 (CLP)	Flammable liquids (Category 3) - H226 Acute toxicity, Inhalation (Category 4) - H332 Skin irritation (Category 2) - H315 Serious eye damage (Category 1) - H318 Germ cell mutagenicity (Category 2) -H341 Carcinogenicity (Category 2) - H351
Classification: OSHA 29 CFR 1910.1200 HCS	<u>OSHA Hazards</u> Target Organ Effect, Toxic by inhalation. Toxic by ingestion, Toxic by skin absorption, Corrosive, Carcinogen, Mutagen. <u>Target Organs</u> Nerves, Liver, Heart, Kidney, Eyes, Skin, Central nervous system, Pancreas, Spleen. <u>GHS Classification</u> Flammable liquids (Category 3) - H226 Acute toxicity, Inhalation (Category 4) - H332 Skin irritation (Category 2) - H315 Serious eye damage (Category 1) - H318 Germ cell mutagenicity (Category 2) -H341 Carcinogenicity (Category 2) - H351

<p>Classification: Directive 1999/45/EC</p>	<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;">  <p>C R34, R68, S7, S16, S24/25, S26, S28 EN: Corrosive DA: Ætsende DE: Ätzend EL: Διαβρωτικό ES: Corrosivo FR: Corrosif IT: Corrosivo NL: Bijtend PT: Corrosivo SV: Frätande</p> </div> <div>  <p>T, R23/24/25, R48/20/21/22, S36/37/39, S45 EN: Toxic DA: Giftig DE: Giftig EL: Τοξικό ES: Tóxico FR: Toxique IT: Tossico NL: Vergiftig PT: Tóxico SV: Giftig</p> </div> </div> <p>For full text of R- & S- phrases: see Section 15.</p>
<p>2.2 Label Elements</p>	<p>Pictogram(s):</p> <div style="text-align: center;">  </div> <p>Signal word: Danger</p> <p>Hazard statement(s):</p> <ul style="list-style-type: none"> H226 – Flammable liquid and vapour. H315 – Causes skin irritation H318 – Causes serious eye damage. H332 – Harmful if inhaled H341 – Suspected of causing genetic defects. H351 – Suspected of causing cancer. <p>Precautionary statement(s):</p> <p>P202 – Do not handle until all safety precautions have been read and understood.</p> <p>Precautionary statement(s) not listed on label:</p> <ul style="list-style-type: none"> P302+ P352 – IF ON SKIN: Wash with plenty of soap and water P333 + P313 – If skin irritation or a rash occurs: Get medical advice/attention. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several







	minutes. Remove contact lenses if present and easy to do – continue rinsing P310 – Immediately call a POISON CENTER or doctor/physician. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P210 – Keep away from heat/sparks/open flames/hot surfaces – No smoking										
NFPA Scale: 0-4											
HMIS (U.S.A.) Scale: 0-4	<table border="1"> <tr><td>HEALTH</td><td style="text-align: center;">3</td></tr> <tr><td>FLAMMABILITY</td><td style="text-align: center;">1</td></tr> <tr><td>PHYSICAL HAZARD</td><td style="text-align: center;">0</td></tr> <tr><td>PERSONAL PROTECTION</td><td style="text-align: center;">H</td></tr> </table>	HEALTH	3	FLAMMABILITY	1	PHYSICAL HAZARD	0	PERSONAL PROTECTION	H		
HEALTH	3										
FLAMMABILITY	1										
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 H341 Suspected of causing genetic defects. STOT RE, 2 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.	≤ 5

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.	≤ 0.1
----------------	----------	-----------	---	-------

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 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	<p>Exposure Limits: <u>Ethanol:</u> NIOSH REL: 1000 ppm (1900 mg/m³) TWA OSHA PEL: 1000 ppm (1900 mg/m³) TWA ACGIH TLV: 1000ppm (1900mg/m³) TWA <u>Phenol:</u> 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>
8.2 Exposure controls	<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>
Engineering Controls	<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

Physical State	Liquid
Color	Opaque red
Odor	Sweet and Tarry (From Phenol)
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.	<p>Acute Toxicity. No relevant data available</p> <p>Skin Corrosion/Irritation. Corrosive to skin and mucous membranes.</p> <p>Serious Eye Damage/Irritation. Corrosive to eye.</p> <p>Respiratory or skin sensitization. No relevant data available.</p> <p>Germ Cell Mutagenicity. No relevant data available.</p>
Carcinogenicity.	<p>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)</p> <p>National Toxicology Program (NTP). Reasonably anticipated to be a human carcinogen (C.I. Basic red 9)</p>

Section 12. Ecological Information

12.1 Toxicity	<p>Fish: No relevant studies identified.</p> <p>Crustacea: No relevant studies identified.</p> <p>Algae/Aquatic Plants: No relevant studies identified.</p> <p>Other Organisms: No relevant studies identified.</p>
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 Teomics, LLC.
R phrases	<p>R34 EN: Causes burns. DA: Ætsningsfare. DE: Verursacht Verätzungen. EL: Προκαλεί εγκαύματα. ES: Provoca quemaduras. FR: Provoque des brulures. IT: Provoca ustioni. NL: Veroorzaakt brandwonden. PT: Provoca queimaduras. SV: Frätande.</p> <p>R23/24/25 EN: Toxic by inhalation, in contact with skin and if swallowed. DA: Giftig ved indånding, ved hudkontakt og ved indtagelse. DE: Giftig beim Einatmen, Verschlucken und Berührung mit der Haut. EL: Τοξικό όταν εισπνέεται, σε επαφή με το δέρμα και σε περίπτωση καταπόσεως. ES: Tóxico por inhalación, por ingestión y en contacto con la piel. FR: Toxique par inhalation, par contact avec la peau et par ingestion. IT: Tossico per inalazione, contatto con la pelle e per ingestione. NL: Vergiftig bij inademing, opname door de mond en aanraking met de huid. PT: Tóxico por inalação, em contacto com a pele e por ingestão. SV: Giftigt vid inandning, hudkontakt och förtäring.</p> <p>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 περίπτωση 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.</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.</p>

	<p>ES: Posibilidad de efectos irreversibles. FR: Possibilit� d'effets irreversibles. IT: Possibilit� di effetti irreversibili. NL: Onherstelbare effecten zijn niet uitgesloten. PT: Possibilidade de efeitos irrevers�veis. SV: M�jlig risk f�r best�ende h�lsoskador.</p>
<p>S phrases</p>	<p>S7 EN: Keep container tightly closed. DA: Emballagen skal holdes t�t lukket. DE: Beh�lter dicht geschlossen halten. EL: Το δοχείο να διατηρείται ερμητικά κλεισμένο. ES: Mant�ngase el recipiente bien cerrado. FR: Conserver le r�cipient bien ferm�. IT: Conservare il recipiente ben chiuso. NL: In goed gesloten verpakking bewaren. PT: Manter o recipiente bem fechado. SV: F�rpackningen f�rvaras v�l tillsluten.</p> <p>S16 EN: Keep away from sources of ignition - No smoking. DA: Holdes v�k fra ant�ndelseskilder - Rygning forbudt. DE: Von Z�ndquellen fernhalten - Nicht rauchen. EL: Μακρι� από πηγ�ς 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'�tincelles - 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 igni�o - N�o fumar. SV: F�rvaras �tskilt fr�n ant�ndningsk�llor - R�kning f�rbjuden.</p> <p>S24/25 EN: Avoid contact with skin and eyes. DA: Undg� kontakt med huden og �jnene. DE: Ber�hrung mit den Augen und der Haut vermeiden. EL: Αποφεύγετε επαφή με το δ�ρμα και με τα μάτια. ES: Ev�tese el contacto con los ojos y la piel. FR: �viter 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 �gonen.</p> <p>S26 EN: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. DA: Kommer stoffet i �jnene, skylles straks grundigt med vand og l�ge kontaktes. DE: Bei Ber�hrung mit den Augen sofort gr�ndlich mit Wasser absp�len 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, l�vense inmediata y abundantemente con agua y ac�dase a un m�dico. FR: En cas de contact avec les yeux, laver imm�diatement et abondamment avec de l'eau et consulter un spécialiste. 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 �gua e consultar um especialista. SV: id kontakt med �gonen, spola genast med mycket vatten och kontakta l�kare.</p> <p>S28</p>

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: Usense indumentaria y guantes adecuados y protección para los ojos/la cara.
 FR: Porter un vêtement de protection approprié, 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 immédiatement 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

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Teomics, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.