









Section 1. Identification

1.1 Product Identifier	Product Name: Gram Stain Kit (Modified Brown & Brenn) Product Number: SS1004-BB-VO	
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	4300 Emperor Blvd. #400 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	Flammable liquids (Category 2), H225 Eye irritation (Category 2A) – H318 Carcinogenicity (Category 2) – H351 Acute aquatic toxicity (Category 2) – H401 Chronic aquatic toxicity (Category 2) – H410 Specific target organ toxicity Oral (Category 1) – H372 Specific target organ toxicity SE (Category 3) – H336		
Classification: Directive 1999/45/EC	 <p>Xn R4, R10, R20/21, R22, R36, R40, R41, R50/53, R67 S2, S7, S16, S23, S24/25, S26, S36/37/39, S46, S60, S61 EN: Harmful DA: Sundhedsskadelig DE: Gesundheitsschädlich EL: Επιβλαβές ES: Nocivo FR: Nocif IT: Nocivo</p>	 <p>N: EN: Dangerous for the environment DA: Miljøfarlig DE: Umweltgefährlich EL: Επικίνδυνο για το περιβάλλον ES: Peligroso para el medio ambiente FR: Dangereux pour l'environnement IT: Pericoloso per l'ambiente</p>	 <p>F EN: Highly flammable DA: Meget brandfarlig DE: Leichtentzündlich EL: Πολύ εύφλεκτο ES: Fácilmente inflamable FR: Facilement inflammable IT: Facilmente infiammabile NL: Licht ontvlambaar PT: Facilmente inflamável SV: Mycket brandfarligt</p>

	NL: Schadelijk PT: Nocivo SV: Hälsoskadlig For full text of R- & S- phrases: see Section 15.	NL: Milieugevaarlijk PT: Perigoso para o ambiente SV: Miljöfarlig	
2.2 Label Elements	Pictogram(s): <div style="display: flex; justify-content: center; gap: 10px;">     </div>		
	Signal Word: Danger		
	Hazard Statement(s): H3225 – Highly flammable liquid and vapour. H318 – Causes serious eye irritation. H336 – May cause drowsiness or dizziness H351 – Suspected of causing cancer. H410 – Very toxic to aquatic life with long lasting effects. H372 – Causes damage to organs through prolonged or repeated exposure (Thyroid).		
	Precautionary statement(s): P202 – Do not handle until all safety precautions [on SDS] have been read and understood		
	Precautionary statements not listed on label: P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking P264 – Wash skin thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P273 – Avoid release to the environment P301 + P311 – IF SWALLOWED: Call a POISON CENTER or doctor/physician. P305 + P351 – IF IN EYES: Rinse cautiously with water for several minutes. P337 + P313 – If eye irritation persists: Get medical advice/ attention. P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water P314 – Get Medical advice/attention if you feel unwell 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 Kit does not contain any substances that are assessed to be a PBT. vPvB: This Kit does not contain any substances that are assessed to be a vPvB.		

Section 3. Composition and Information on Ingredients

See components SDS

Section 4. First Aid Measures

See components SDS

Section 5. Fire Fighting Measures

See components SDS

Section 6. Accidental Release Measures

See components SDS

Section 7. Handling and Storage

7.1 Precautions for safe handling.

Avoid damaging kit.

7.2 Conditions for safe storage, including any incompatibilities.

Store in well ventilated area.

Store at 15-30°C.

7.3 Specific end use(s).

See section 1.2

Section 8. Exposure Controls / Personal Protection

See components SDS

Section 9. Physical and Chemical Properties

See components SDS

Section 10. Stability and Reactivity

See components SDS

Section 11. Toxicological Information

See components SDS

Section 12. Ecological Information

See components SDS

Section 13. Disposal Considerations

See components SDS

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 Kit.	
Extremely Hazardous Substances; Section 355	None of the components in this Kit are listed.
Toxic Substances Control Act; TSCA	All of the components in this Kit are listed.
California Proposition 65	Methanol is listed as a having developmental toxicity.
Right To Know Components	<u>Ethanol CAS# 64-17-5</u> Massachusetts Pennsylvania New Jersey <u>C.I. Basic violet CAS# 3548-62-9</u> New Jersey <u>Potassium Iodide CAS# 7681-11-0</u> Pennsylvania New Jersey <u>Iodine CAS# 7553-56-2</u> Massachusetts Pennsylvania New Jersey <u>Acetone CAS# 67-64-1</u> Massachusetts Pennsylvania New Jersey <u>Picric Acid CAS# 88-89-1</u> Massachusetts Pennsylvania New Jersey
15.2 Chemical Safety	No Chemical Safety Assessment has been carried out for this substance/Kit by Cancer Diagnostics,

Assessment	Inc.
R phrases	<p>R4 EN: Forms very sensitive explosive metallic compounds. DA: Danner meget følsomme eksplosive metalforbindelser. DE: Bildet hochempfindliche explosionsgefährliche Metallverbindungen. EL: Σχηματίζει πολύ ευαίσθητες εκρηκτικές μεταλλικές ενώσεις. ES: Forma compuestos metálicos explosivos muy sensibles. FR: Forme des composés métalliques explosifs très sensibles. IT: Forma composti metallici esplosivi molto sensibili. NL: Vormt met metalen zeer gemakkelijk ontplofbare verbindingen. PT: Forma compostos metálicos explosivos muito sensíveis. SV: Bildar mycket känsliga explosiva metallföreningar.</p> <p>R10 EN: Flammable. DA: Brandfarlig. DE: Entzündlich. EL: Εύφλεκτο. ES: Inflamable. FR: Inflammable. IT: Infiammabile. NL: Ontvlambaar. PT: Inflamável. SV: Brandfarligt.</p> <p>R20/21 EN: Harmful by inhalation and in contact with skin. DA: Farlig ved indånding og ved hudkontakt. DE: Gesundheitsschädlich beim Einatmen und bei Berührung mit der Haut. EL: Επιβλαβές όταν εισπνέεται και σε επαφή με το δέρμα. ES: Nocivo por inhalación y en contacto con la piel. FR: Nocif par inhalation et par contact avec la peau. IT: Nocivo per inalazione e contatto con la pelle. NL: Schadelijk bij inademing en bij aanraking met de huid. PT: Nocivo em contacto com a pele. SV: Farligt vid inandning och hudkontakt.</p> <p>R22 EN: Harmful if swallowed. DA: Farlig ved indtagelse. DE: Gesundheitsschädlich beim Verschlucken. EL: Επιβλαβές σε περίπτωση καταπόσεως. ES: Nocivo por ingestión. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. NL: Schadelijk bij opname door de mond. PT: Nocivo por ingestão. SV: Farligt vid förtäring.</p> <p>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.</p> <p>R40</p>

	<p>EN: Limited evidence of a carcinogenic effect. DA: Mulighed for kræftfremkaldende effekt. DE: Verdacht auf krebserzeugende Wirkung. EL: Υποπτο 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.</p> <p>R41 EN: Risk of serious damage to eyes. DA: Risiko for alvorlig øjenskaede. 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>R50/53 EN: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DA: Meget giftig for organismer, der lever i vand; kan forårsage uønskede langtidsvirkninger i vandmiljøet. DE: Sehr giftig für Wasserorganismen, kann in Gewässern längerfristig schädliche Wirkungen haben. EL: Πολύ τοξικό για τους υδρόβιους οργανισμούς, μπορεί να προκαλέσει μακροχρόνιες δυσμενείς επιπτώσεις στο υδάτινο περιβάλλον. ES: Muy tóxico para los organismos acuáticos, puede provocar a largo plazo efectos negativos en el medio ambiente acuático. FR: Tres toxique pour les organismes aquatiques, peut entrainer des effets nefastes a long terme pour l'environnement aquatique. IT: Altamente tossico per gli organismi acquatici, può provocare a lungo termine effetti negativi per l'ambiente acquatico. NL: Zeer vergiftig voor in het water levende organismen; kan in het aquatisch milieu op lange termijn schadelijke effecten veroorzaken. PT: Muito tóxico para os organismos aquáticos, podendo causar efeitos nefastos a longo prazo no ambiente aquático. SV: Mycket giftigt för vattenlevande organismer, kan orsaka skadliga långtidseffekter i vattenmiljön.</p> <p>R67 EN: Vapours may cause drowsiness and dizziness. DA: Dampe kan give sløvhed og svimmelhed. DE: Dämpfe können Schläfrigkeit und Benommenheit verursachen. EL: Η εισπνοή ατμών μπορεί να προκαλέσει υπνηλία και ζάλη. ES: La inhalación de vapores puede provocar somnolencia y vértigo. FR: L'inhalation de vapeurs peut provoquer somnolence et vertiges. IT: L'inhalazione dei vapori può provocare sonnolenza e vertigini. NL: Dampen kunnen slaperigheid en duizeligheid veroorzaken. PT: Pode provocar sonolência e vertigens, por inalação dos vapores. SV: Ångor kan göra att man blir dåsig och omtöcknad.</p>
S phrases	<p>S2 EN: Keep out of the reach of children. DA: Opbevares utilgængeligt for børn. DE: Darf nicht in die Hände von Kindern gelangen. EL: Μακριά από παιδιά. ES: Manténgase fuera del alcance de los niños. FR: Conserver hors de la portee des enfants. IT: Conservare fuori della portata dei bambini. NL: Buiten bereik van kinderen bewaren. PT: Manter fora do alcance das crianças.</p>

	<p>SV: Förvaras oåtkomligt för barn.</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>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'étincelles - 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 användningskällor - Rökning förbjuden.</p> <p>S23 EN: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). DA: Undgå indånding af gas/røg/dampe/aerosol-tåger (den eller de pågældende betegnelser angives af fabrikanten). DE: Gas/Rauch/Dampf/Aerosol nicht einatmen (geeignete Bezeichnung(en) vom Hersteller anzugeben). EL: Μην αναπνέετε αέρια/αναθυμιάσεις/ατμούς/εκνεφώματα (η κατάλληλη διατύπωση καθορίζεται από τον παραγωγό). ES: No respirar los gases/humos/vapores/aerosoles (denominación(es) adecuada(s) a especificar por el fabricante). FR: Ne pas respirer les gaz/fumées/vapeurs/aérosols (terme(s) approprié(s) à indiquer par le fabricant). IT: Non respirare i gas/fumi/vapori/aerosoli (termine(i) appropriato(i) da precisare da parte del produttore). NL: Gas/rook/damp/spuitnevel niet inademen. (toepasselijke term(en) aan te geven door de fabrikant). PT: Não respirar os gases/vapores/fumos/aerossóis (termo(s) apropriado(s) a indicar pelo produtor). SV: Undvik inandning av gas/rök/ånga/dimma (lämplig formulering anges av tillverkaren).</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 πλύνετε τα αμέσως με άφθονο νερό και ζητήστε ιατρική</p>
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	<p>συμβουλή.</p> <p>ES: En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico.</p> <p>FR: En cas de contact avec les yeux, laver immédiatement et abondamment avec de l'eau et consulter un spécialiste.</p> <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>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 approprié, 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>S46</p> <p>EN: If swallowed, seek medical advice immediately and show this container or label.</p> <p>DA: Ved indtagelse, kontakt odümgående læge og vis denne beholder eller etiket.</p> <p>DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung odor Etikett vorzeigen.</p> <p>EL: Σε περίπτωση κατάποσης ζητήστε αμέσως ιατρική συμβουλή και δείξτε αυτό το δοχείο ή την ετικέτα.</p> <p>ES: En caso de ingestión, acúdase inmediatamente al medico y muéstrele la etiqueta o el envase.</p> <p>FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette.</p> <p>IT: In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta.</p> <p>NL: In geval van inslikken onmiddellijk een arts raadplegen en verpakking of etiket tonen.</p> <p>PT: Em caso de ingestão, consultar imediatamente o médico e mostrar-lhe a embalagem ou o rótulo.</p> <p>SV: Vid förtäring kontakta genast läkare och visa denna förpackning eller etiketten.</p> <p>S60</p> <p>EN: This material and its container must be disposed of as hazardous waste.</p> <p>DA: Undgå udledning til miljøet. Se særlig vejledning/leverandørbrugsanvisning.</p> <p>DE: Dieses Produkt und sein Behälter sind als gefährlicher Abfall zu entsorgen.</p> <p>EL: Αποφύγετε την ελευθέρωσή του στο περιβάλλον. Αναφερθείτε σε ειδικές οδηγίες/ελτίο δεδομένων ασφαλείας.</p> <p>ES: Elimínense el producto y su recipiente como residuos peligrosos.</p> <p>FR: Eliminer le produit et son recipient comme un dechet dangereux.</p> <p>IT: Questo materiale e il suo contenitore devono essere smaltiti come rifiuti pericolosi.</p> <p>NL: Deze stof en de verpakking als gevaarlijk afval afvoeren.</p> <p>PT: Este produto e o seu recipiente devem ser eliminados como residuos perigosos.</p> <p>SV: Detta material och dess behållare skall tas om hand som farligt avfall.</p> <p>S61</p> <p>EN: Avoid release to the environment. Refer to special instructions/Safety data sheets.</p> <p>DA: Undgå udledning til miljøet. Se særlig vejledning/leverandørbrugsanvisning.</p> <p>DE: Freisetzung in die Umwelt vermeiden. Besondere Anweisungen einholen/Sicherheitsdatenblatt zu Rate ziehen.</p> <p>EL: Αποφύγετε την ελευθέρωσή του στο περιβάλλον. Αναφερθείτε σε ειδικές οδηγίες/ελτίο δεδομένων ασφαλείας.</p> <p>ES: Evítese su liberación al medio ambiente. Recábense instrucciones específicas de la ficha de datos de seguridad.</p>
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	<p>FR: Eviter le rejet dans l'environnement. Consulter les instructions speciales/la fiche de donnees de securite.</p> <p>IT: Non disperdere nell'ambiente. Riferirsi alle istruzioni speciali/ schede informative in materia di sicurezza.</p> <p>NL: Voorkom lozing in het milieu. Vraag om speciale instructies/veiligheidskaart.</p> <p>PT: Evitar a libertação para o ambiente. Obter instruções específicas/fichas de segurança.</p> <p>SV: Undvik utsläpp till miljön. Läs särskilda instruktioner/varuinformationsblad.</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.

Section 1. Identification

1.1 Product Identifier	Product Name: Gentian Violet Solution Product Number: SSC1166	
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	4300 Emperor Blvd. #400 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 Classification: Regulation (EC) No 1272/2008 (CLP)	Flammable liquids (Category 3) – H226 Eye irritation (Category 2A) – H318 Carcinogenicity (Category 2) – H351 Acute aquatic toxicity (Category 2) – H401 Chronic aquatic toxicity (Category 2) – H410
Classification: OSHA 29 CFR 1910.1200 HCS	Flammable liquids (Category 3) – H226 Eye irritation (Category 2A) – H318 Carcinogenicity (Category 2) – H351 Acute aquatic toxicity (Category 2) – H401 Chronic aquatic toxicity (Category 2) – H410
Classification: Directive 1999/45/EC	 Xn R10, R22, R36, R 40, R41, R50/23, R67 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): <div style="display: flex; justify-content: center; gap: 10px; margin: 10px 0;">     </div> <p>Signal word: Danger</p> <p>Hazard statement(s): H226 – Flammable liquid and vapour H318 – Causes serious eye irritation. H351 – Suspected of causing cancer. H410 – Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statement(s): P202 – Do not handle until all safety precautions have been read and understood.</p> <p>Precautionary statements not listed on label: P264 – Wash skin thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P273 – Avoid release to the environment P301 + P311 – IF SWALLOWED: Call a POISON CENTER or doctor/physician. P305 + P351 – IF IN EYES: Rinse cautiously with water for several minutes. P337 + P313 – If eye irritation persists: Get medical advice/ attention. P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water P314 – Get Medical advice/attention if you feel unwell</p>								
NFPA Scale: 0-4									
HMIS (U.S.A.) Scale: 0-4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #d9e1f2;">HEALTH</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: #f4cccc;">FLAMMABILITY</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: #fff2cc;">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	2	FLAMMABILITY	2	PHYSICAL HAZARD	0	PERSONAL PROTECTION	H
HEALTH	2								
FLAMMABILITY	2								
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	%
Ethyl Alcohol	64-17-5	200-578-6	 Danger. 2 H225 Highly flammable liquid and vapour.	≤ 17
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	≤ 3
Ammonium Oxalate	6009-70-7	238-135-4	  Danger. 4 H302 Harmful if swallowed. 1 H318 Serious eye damage. 1B H314 Skin corrosion.	≤ 0.8
C.I. Basic violet 3 – Listed on the Candidate List of Substances of Very High Concern (SVHC) (Regulation (EC) No. 1907/2006)	548-62-9	208-953-6	 Warning. 2 H351 Suspected of causing cancer.  Warning. 4 H302 Harmful if swallowed.  Danger. 1 H318 Causes serious eye damage.  Warning. 1. H400 Very toxic to aquatic life. 1. H410 Very toxic to aquatic life with long lasting effects.	≤ 2.0

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	May produce flammable vapors under fire conditions.
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

<p>6.1 Personal precautions, protective equipment and emergency procedures Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.</p> <p>6.2 Environmental precautions Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.</p> <p>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.</p>

Section 7. Handling and Storage

<p>7.1 Precautions for safe handling. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapor.</p> <p>7.2 Conditions for safe storage, including any incompatibilities. Store in well ventilated area. Keep container tightly closed. Store at 15-30°C.</p> <p>7.3 Specific end use(s). See section 1.2</p>

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters	<p>Exposure Limits: Ethyl Alcohol NIOSH REL: 1000 ppm (1900 mg/m³) TWA OSHA PEL: 1000 ppm (1900 mg/m³) TWA ACGIH TLV: 1000ppm (1900mg/m³) TWA Isopropyl Alcohol NIOSH REL: TWA 400 ppm (980 mg/m³) ST 500 ppm (1225 mg/m³) OSHA PEL: TWA 400 ppm (980 mg/m³) ACGIH TLV: TWA 200 ppm STEL 400 ppm</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.</p>

	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 purple.
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	Strong acids, oxidizing agents, alkali metals, reducing reagents, peroxides.
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.
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	May be 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). None of the components are listed. National Toxicology Program (NTP). None of the components are listed. Although not listed above, this stain is suspected of causing cancer.

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: 1993 ADR/RID: 1993 IMDG: 1993 IATA: 1993
14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR	ADR/RID: Flammable liquids, n.o.s. (Ethanol) IMDG: Flammable liquids, n.o.s. (Ethanol) IATA: Flammable liquids, n.o.s. (Ethanol) DOT: Flammable liquids, n.o.s. (Ethanol)
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: III IMDG: III IATA: III 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: Massachusetts Pennsylvania New Jersey C.I. Basic violet 3: New Jersey
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. R22 EN: Harmful if swallowed. DA: Farlig ved indtagelse. DE: Gesundheitsschädlich beim Verschlucken. EL: Επιβλαβές σε περίπτωση καταπόσεως. ES: Nocivo por ingestión. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. NL: Schadelijk bij opname door de mond. PT: Nocivo por ingestão. SV: Farligt vid förtäring. R36

	<p>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.</p> <p>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.</p> <p>R41 EN: Risk of serious damage to eyes. DA: Risiko for alvorlig øjenskaade. 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>R50/53 EN: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DA: Meget giftig for organismer, der lever i vand; kan forårsage uønskede langtidsvirkninger i vandmiljøet. DE: Sehr giftig für Wasserorganismen, kann in Gewässern längerfristig schädliche Wirkungen haben. EL: Πολύ τοξικό για τους υδρόβιους οργανισμούς, μπορεί να προκαλέσει μακροχρόνιες δυσμενείς επιπτώσεις στο υδάτινο περιβάλλον. ES: Muy tóxico para los organismos acuáticos, puede provocar a largo plazo efectos negativos en el medio ambiente acuático. FR: Tres toxique pour les organismes aquatiques, peut entrainer des effets nefastes a long terme pour l'environnement aquatique. IT: Altamente tossico per gli organismi acquatici, può provocare a lungo termine effetti negativi per l'ambiente acquatico. NL: Zeer vergiftig voor in het water levende organismen; kan in het aquatisch milieu op lange termijn schadelijke effecten veroorzaken. PT: Muito tóxico para os organismos aquáticos, podendo causar efeitos nefastos a longo prazo no ambiente aquático. SV: Mycket giftigt för vattenlevande organismer, kan orsaka skadliga långtidseffekter i vattenmiljön.</p> <p>R67 EN: Vapours may cause drowsiness and dizziness. DA: Dæmpe kan give sløvnhed og svimmelhed. DE: Dämpfe können Schläfrigkeit und Benommenheit verursachen. EL: Η εισπνοή ατμών μπορεί να προκαλέσει υπνηλία και ζάλη. ES: La inhalación de vapores puede provocar somnolencia y vértigo. FR: L'inhalation de vapeurs peut provoquer somnolence et vertiges. IT: L'inhalazione dei vapori può provocare sonnolenza e vertigini.</p>
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	<p>NL: Dampen kunnen slaperigheid en duizeligheid veroorzaken. PT: Pode provocar sonolência e vertigens, por inalação dos vapores. SV: Ångor kan göra att man blir dásig och omtöcknad.</p>
S phrases	<p>S2 EN: Keep out of the reach of children. DA: Opbevares utilgængeligt for børn. DE: Darf nicht in die Hände von Kindern gelangen. EL: Μακριά από παιδιά. ES: Manténgase fuera del alcance de los niños. FR: Conserver hors de la portee des enfants. IT: Conservare fuori della portata dei bambini. NL: Buiten bereik van kinderen bewaren. PT: Manter fora do alcance das crianças. SV: Förvaras oåtkomligt för barn.</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>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'étincelles - 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.</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 πλύνετε 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 immédiatement 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</p>

	<p>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>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 approprié, 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>S46</p> <p>EN: If swallowed, seek medical advice immediately and show this container or label.</p> <p>DA: Ved indtagelse, kontakt odümgående læge og vis denne beholder eller etiket.</p> <p>DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung odor Etikett vorzeigen.</p> <p>EL: Σε περίπτωση κατάποσης ζητήστε αμέσως ιατρική συμβουλή και δείξτε αυτό το δοχείο ή την ετικέτα.</p> <p>ES: En caso de ingestión, acúdase inmediatamente al medico y muéstrele la etiqueta o el envase.</p> <p>FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette.</p> <p>IT: In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta.</p> <p>NL: In geval van inslikken onmiddellijk een arts raadplegen en verpakking of etiket tonen.</p> <p>PT: Em caso de ingestão, consultar imediatamente o médico e mostrar-lhe a embalagem ou o rótulo.</p> <p>SV: Vid förtäring kontakta genast läkare och visa denna förpackning eller etiketten.</p> <p>S60</p> <p>EN: This material and its container must be disposed of as hazardous waste.</p> <p>DA: Undgå udledning til miljøet. Se særlig vejledning/leverandørbrugsanvisning.</p> <p>DE: Dieses Produkt und sein Behälter sind als gefährlicher Abfall zu entsorgen.</p> <p>EL: Αποφύγετε την ελευθέρωσή του στο περιβάλλον. Αναφερθείτε σε ειδικές οδηγίες/.ελτίο δεδομένων ασφαλείας.</p> <p>ES: Elimínense el producto y su recipiente como residuos peligrosos.</p> <p>FR: Eliminer le produit et son récipient comme un déchet dangereux.</p> <p>IT: Questo materiale e il suo contenitore devono essere smaltiti come rifiuti pericolosi.</p> <p>NL: Deze stof en de verpakking als gevaarlijk afval afvoeren.</p> <p>PT: Este produto e o seu recipiente devem ser eliminados como resíduos perigosos.</p> <p>SV: Detta material och dess behållare skall tas om hand som farligt avfall.</p> <p>S61</p> <p>EN: Avoid release to the environment. Refer to special instructions/Safety data sheets.</p> <p>DA: Undgå udledning til miljøet. Se særlig vejledning/leverandørbrugsanvisning.</p> <p>DE: Freisetzung in die Umwelt vermeiden. Besondere Anweisungen einholen/Sicherheitsdatenblatt zu Rate ziehen.</p> <p>EL: Αποφύγετε την ελευθέρωσή του στο περιβάλλον. Αναφερθείτε σε ειδικές οδηγίες/.ελτίο δεδομένων ασφαλείας.</p> <p>ES: Evítese su liberación al medio ambiente. Recábense instrucciones específicas de la ficha de datos de seguridad.</p> <p>FR: Eviter le rejet dans l'environnement. Consulter les instructions spéciales/la fiche de données de sécurité.</p> <p>IT: Non disperdere nell'ambiente. Riferirsi alle istruzioni speciali/ schede informative in materia di sicurezza.</p> <p>NL: Voorkom lozing in het milieu. Vraag om speciale instructies/veiligheidskaart.</p> <p>PT: Evitar a libertação para o ambiente. Obter instruções específicas/fichas de segurança.</p> <p>SV: Undvik utsläpp till miljön. Läs särskilda instruktioner/varuinformationsblad.</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.

Section 1. Identification

1.1 Product Identifier	Product Name: Lugol's Iodine Solution Product Number: SSC1090	
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	4300 Emperor Blvd. #400 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 Classification: Regulation (EC) No 1272/2008 (CLP)	Specific target organ toxicity Oral (Category 1) – H372 Acute aquatic toxicity (Category 3) – H402
Classification: OSHA 29 CFR 1910.1200 HCS	Specific target organ toxicity Oral (Category 1) – H372 Acute aquatic toxicity (Category 3) – H402
Classification: Directive 1999/45/EC	 <p>Xn R20/21, S23, S25 EN: Harmful DA: Sundhedsskadelig DE: Gesundheitsschädlich EL: Επιβλαβές ES: Nocivo FR: Nocif IT: Nocivo NL: Schadelijk PT: Nocivo SV: Hälsoskadlig</p>




	 <p>N: R50 EN: Dangerous for the environment DA: Miljøfarlig DE: Umweltgefährlich EL: Επικίνδυνο για το περιβάλλον ES: Peligroso para el medio ambiente FR: Dangereux pour l'environnement IT: Pericoloso per l'ambiente NL: Milieugevaarlijk PT: Perigoso para o ambiente SV: Miljöfarlig'</p> <p>For full text of R- & S- phrases: see Section 15.</p>								
2.2 Label Elements	<p>Pictogram(s):</p>  <p>Signal word: Danager</p> <p>Hazard statement(s): H372 – Causes damage to organs through prolonged or repeated exposure (Thyroid). H402 – Harmful to aquatic life</p> <p>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.</p> <p>Precautionary statement(s) not listed on label: P314 – Get medical advice/attention if you feel unwell P273 – Avoid release to the environment</p>								
NFPA Scale: 0-4									
HMIS (U.S.A.) Scale: 0-4	<table border="1"> <tr> <td>HEALTH</td> <td>2</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>B</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	PHYSICAL HAZARD	0	PERSONAL PROTECTION	B
HEALTH	2								
FLAMMABILITY	0								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	B								
2.3 Other Hazards	<p>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.</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	%
Potassium Iodide	7681-11-0	231-659-4	 Warning. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation. 3 H335 May cause respiratory irritation.	≤4
Iodine	7553-56-2	231-442-4	 Warning. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation. 3 H302 Harmful if swallowed.  Warning. 1 H400 Very toxic to aquatic life.	≤2

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 symptoms develop.

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: Potassium iodide ACGIH: 0.01mg/m3 TWA Iodine OSHA: 0.1ppm C NIOSH 0.1ppm C ACGIH: 0.1 STEL
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 amber/brown slightly transparent.
Odor	Slight iodine 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	Liquid chlorine, acetaldehyde, ammonia, salt + ethanol, ammonium hydroxide, methyl alcohol, antimony, silver azide, lithium, potassium, sodium, phosphorous, bromine pentafluoride, fluorine, oxygen difluoride, magnesium, finely divided metals, organic solvents, rubber goods, plastics, zinc, aluminum, alkali metals, sulphur, ammonia solutions, Bromine trifluoride, reducing agents, iron, ethanol + butadiene; ethanol + phosphorous; ethanol + methanol + Hg); formamide + pyridine + sulfur trioxide; formamide; halogens or interhalogens; mercuric oxide; metal carbides; oxygen; pyridine; sodium hydride. Violent reaction with iodine and aluminum + diethyl ether...(and) titanium (above 113 deg C) (Iodine).
10.6 Hazardous Decomposition Materials	None known.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	Acute Toxicity. No relevant data available Skin Corrosion/Irritation. May be irritating to skin and mucous membranes. Serious Eye Damage/Irritation. May be 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). None of the components are listed. 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: 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	<p><u>Potassium Iodide</u> Pennsylvania New Jersey</p> <p><u>Iodine</u> Massachusetts Pennsylvania New Jersey</p>
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
R phrases	<p>R20/21 EN: Harmful by inhalation and in contact with skin. DA: Farlig ved indånding og ved hudkontakt. DE: Gesundheitsschädlich beim Einatmen und bei Berührung mit der Haut. EL: Επιβλαβές όταν εισπνέεται και σε επαφή με το δέρμα. ES: Nocivo por inhalación y en contacto con la piel. FR: Nocif par inhalation et par contact avec la peau. IT: Nocivo per inalazione e contatto con la pelle. NL: Schadelijk bij inademing en bij aanraking met de huid. PT: Nocivo em contacto com a pele. SV: Farligt vid inandning och hudkontakt.</p> <p>R50 EN: Very toxic to aquatic organisms. DA: Meget giftig for organismer, der lever i vand. DE: Sehr giftig für Wasserorganismen. EL: Πολύ τοξικό για τους υδρόβιους οργανισμούς. ES: Muy tóxico para los organismos acuáticos. FR: Très toxique pour les organismes aquatiques. IT: Altamente tossico per gli organismi acquatici. NL: Zeer vergiftig voor in het water levende organismen. PT: Muito tóxico para os organismos aquáticos. SV: Mycket giftigt för vattenlevande organismer.</p>
S phrases	<p>S23 EN: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). DA: Undgå indånding af gas/røg/dampe/aerosol-tåger (den eller de pågældende betegnelser angives af fabrikanten). DE: Gas/Rauch/Dampf/Aerosol nicht einatmen (geeignete Bezeichnung(en) vom Hersteller anzugeben). EL: Μην αναπνέετε αέρια/αναθυμιάσεις/ατμούς/εκνεφώματα (η κατάλληλη διατύπωση καθορίζεται από τον παραγωγό). ES: No respirar los gases/humos/vapores/aerosoles (denominación(es) adecuada(s) a especificar por el fabricante). FR: Ne pas respirer les gaz/fumées/vapeurs/aérosols (terme(s) approprié(s) à indiquer par le fabricant). IT: Non respirare i gas/fumi/vapori/aerosoli (termine(i) appropriato(i) da precisare da parte del produttore). NL: Gas/rook/damp/spuitnevel niet inademen. (toepasselijke term(en) aan te geven door de fabrikant). PT: Não respirar os gases/vapores/fumos/aerossóis (termo(s) apropriado(s) a indicar pelo produtor). SV: Undvik inandning av gas/rök/ånga/dimma (lämplig formulering anges av tillverkaren).</p> <p>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.</p>

	<p>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.</p> <p>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 spéciales/la fiche de données 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.</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.

Section 1. Identification

1.1 Product Identifier	Product Name: Gram's Decolorizer ^(Acetone-Alcohol) Solution Product Number: SSC1163	
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	4300 Emperor Blvd. #400 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 Classification: Regulation (EC) No 1272/2008 (CLP)	Flammable liquids (Category 2), H225 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H336
Classification: OSHA 29 CFR 1910.1200 HCS	Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Classification: Directive 1999/45/EC	 <p>F R11, R36, R66, R67, S2, S7, S16 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.</p>





2.2 Label Elements	Pictogram(s):   Signal word: Danger Hazard statement(s): H3225 – Highly flammable liquid and vapour. H319 – Causes serious eye irritation H336 – May cause drowsiness or dizziness Precautionary statement(s): P210 – Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P305 + P351 – IF IN EYES: Rinse cautiously with water for several minutes. P337 + P313 – If eye irritation persists get medical advice/attention			
NFPA Scale: 0-4				
HMIS (U.S.A.) Scale: 0-4	HEALTH	1		
	FLAMMABILITY	3		
	PHYSICAL HAZARD	0		
	PERSONAL PROTECTION	B		
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	%
Acetone	67-64-1	200-662-2	 Danger. 2 H225 Highly Flammable liquid and vapour.  Warning. 2 H319 Causes serious eye irritation. STOT 3 H336 May cause drowsiness or dizziness.	≤ 50
Ethyl Alcohol	64-17-5	200-578-6	 Danger. 2 H225 Highly flammable liquid and vapour.	≤ 42
Isopropyl Alcohol	67-63-0	200-661-7	 Warning. 2. H319 Causes serious eye irritation. 3. H336 May cause drowsiness or	≤ 3

			dizziness.  Danger. 3 H225 Highly flammable liquid and vapour	
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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	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	<p>Exposure Limits:</p> <p>Acetone: OSHA PEL: 1,000 ppm (2,400 mg/m³) TWA NIOSH REL: 250 ppm (590 mg/m³) TWA ACGIH: 500 ppm (1,188 mg/m³) TWA 750 ppm (1,782 mg/m³) STEL</p> <p>Ethyl Alcohol : NIOSH REL: 1000 ppm (1900 mg/m³) TWA OSHA PEL: 1000 ppm (1900 mg/m³) TWA ACGIH TLV: 1000ppm (1900mg/m³) TWA</p> <p>Isoprophyl Alcohol : NIOSH REL: TWA 400 ppm (980 mg/m³) ST 500 ppm (1225 mg/m³) OSHA PEL: TWA 400 ppm (980 mg/m³) ACGIH TLV: TWA 200 ppm STEL 400 ppm</p>
8.2 Exposure controls	<p>Personal Protective Equipment (PPE):</p> <p>Eye/Face protection. Safety glasses or goggles are required.</p> <p>Skin protection. Protective clothing is required.</p> <p>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.</p> <p>Respiratory protection. Avoid breathing vapor.</p> <p>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	Transparent.
Odor	Acetone 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.
10.6 Hazardous Decomposition Materials	Carbon monoxide, carbon dioxide

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	<p>Acute Toxicity. No relevant data available</p> <p>Skin Corrosion/Irritation. May be irritating to skin and mucous membranes.</p> <p>Serious Eye Damage/Irritation. Causes serious eye irritation.</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). None of the components are listed.</p> <p>National Toxicology Program (NTP). None of the components are listed.</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:	<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>

vPvB Assessment.	
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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: 1993 ADR/RID: 1993 IMDG: 1993 IATA: 1993
14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR	ADR/RID: Flammable liquids, n.o.s. (Ethanol, Acetone) IMDG: Flammable liquids, n.o.s. (Ethanol, Acetone) IATA: Flammable liquids, n.o.s. (Ethanol, Acetone) DOT: Flammable liquids, n.o.s. (Ethanol, Acetone)
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	None of the components in this mixture are listed.
15.2 Chemical Safety	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer

Assessment	Diagnostics, Inc.
R phrases	<p>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.</p> <p>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.</p> <p>R66 EN: Repeated exposure may cause skin dryness or cracking. DA: Gentagen udsættelse kan give tør eller revnet hud. DE: Wiederholter Kontakt kann zu spröder oder rissiger Haut führen. EL: Παρατεταμένη έκθεση μπορεί να προκαλέσει ξηρότητα δέρματος ή σκάσιμο. ES: La exposición repetida puede provocar sequedad o formación de grietas en la piel. FR: L'exposition repétee peut provoquer dessechement ou gercures de la peau. IT: L'esposizione ripetuta può provocare secchezza e screpolature della pelle. NL: Herhaalde blootstelling kan een droge of een gebarsten huid veroorzaken. PT: Pode provocar secura da pele ou fissuras, por exposição repetida. SV: Upprepad kontakt kan ge torr hud eller hudsprickor.</p> <p>R67 EN: Vapours may cause drowsiness and dizziness. DA: Dampe kan give sløvhed og svimmelhed. DE: Dämpfe können Schläfrigkeit und Benommenheit verursachen. EL: Η εισπνοή ατμών μπορεί να προκαλέσει υπνηλία και ζάλη. ES: La inhalación de vapores puede provocar somnolencia y vértigo. FR: L'inhalation de vapeurs peut provoquer somnolence et vertiges. IT: L'inalazione dei vapori può provocare sonnolenza e vertigini. NL: Dampen kunnen slaperigheid en duizeligheid veroorzaken. PT: Pode provocar sonolência e vertigens, por inalação dos vapores. SV: Ångor kan göra att man blir dåsig och omtöcknad.</p>
S phrases	<p>S2 EN: Keep out of the reach of children. DA: Opbevares utilgængeligt for børn. DE: Darf nicht in die Hände von Kindern gelangen. EL: Μακριά από παιδιά. ES: Manténgase fuera del alcance de los niños. FR: Conserver hors de la portee des enfants. IT: Conservare fuori della portata dei bambini. NL: Buiten bereik van kinderen bewaren. PT: Manter fora do alcance das crianças. SV: Förvaras oåtkomligt för barn.</p> <p>S7</p>

	<p>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>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'étincelles - 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.</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: Evítase 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 πλύνετε 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 immédiatement 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 água e consultar um especialista. SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare.</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.

Safranin O Solution



1. Identification

1.1 Product Identifier	Product Name: Safranin O Solution Product Number: SSC1188	
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	4300 Emperor Blvd. #400 Durham, NC 27703
	Phone Number	1-877-846-5393
	Fax Number	1-877-817-1716
	e-mail	compliance@cancerdiagnostics.com
	Website	www.cancerdiagnostics.com

2. Hazards Identification

2.1 GHS Classification	Skin irritation (Category 2) – H315 Eye irritation (Category 2) – H320	
Classification: Directive 1999/45/EC	 <p>Xi 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.</p>	

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2.2 Label Elements	Pictogram(s):  Signal word: Warning Hazard statement(s): H315 – Causes skin irritation H320 – Causes eye irritation 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.			
NFPA Scale: 0-4				
HMIS (U.S.A.) Scale: 0-4	HEALTH	1		
FLAMMABILITY	0			
PHYSICAL HAZARD	0			
PERSONAL PROTECTION	B			
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.			

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	%
Safranin O	477-73-6	207-518-8	 Warning. 2 H315 Causes skin irritation.  Danger. 1 H318 Causes serious eye damage.	\leq 0.1

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.

Safranin O Solution

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

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.)

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.

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

8. Exposure Controls / Personal Protection

8.1 Control parameters	Exposure Limits: N/A
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.

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	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.

9. Physical and Chemical Properties

Physical State	Liquid
Color	Red.
Odor	Mild.
Odor Threshold	Unknown
pH	Mildly Acidic
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

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 monoxide, carbon dioxide, nitrogen oxides.

11. Toxicological Information

11.1 Information on Toxicological Effects.	Acute Toxicity. No relevant data available
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Safranin O Solution

	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). None of the components are listed. National Toxicology Program (NTP). None of the components are listed.

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.

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.

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.

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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.

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	None of the components in this mixture are listed.
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
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	S36/37/39 EN: Wear suitable protective clothing, gloves and eye/face protection. DE: Bei der Arbeit geeignete Schutzkleidung, Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. FR: Porter un vêtement de protection appropriée, des gants et un appareil de protection des yeux/du visage. IT: Usare indumenti protettivi e guanti adatti e proteggersi gli occhi/la faccia. ES: Úsense indumentaria y guantes adecuados y protección para los ojos/la cara.

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.

Picric Acid- Acetone Solution 0.1%




Section 1. Identification

1.1 Product Identifier	Product Name: Picric Acid- Acetone Solution (0.1%) Product Number: SSC1106	
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	4300 Emperor Blvd. #400 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	Flammable liquids (Category 3) – H226 Eye irritation (Category 2A) – H319 Specific target organ toxicity SE (Category 3) – H336	
Classification: Directive 1999/45/EC		F R4, R11, R36, R67; S9, S16, S26, S28, S35, 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

Picric Acid- Acetone Solution 0.1%

	 <p>Xi EN: Irritant DA: Lokalirriterende DE: Reizend EL: Ερεθιστικό ES: Irritante FR: Irritant IT: Irritante NL: Irriterend PT: Irritante SV: Irriterande</p> <p>For full text of R- & S- phrases: see Section 15.</p>								
2.2 Label Elements	<p>Pictogram(s):</p>  <p>Signal word: Danger</p> <p>Hazard statement(s): H226 – Flammable liquid and vapor H336 – May cause drowsiness or dizziness H319 – Causes serious eye irritation</p> <p>Precautionary statement(s): P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking. 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 + P313 – 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>2</td> </tr> <tr> <td>FLAMMABILITY</td> <td>3</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td>G</td> </tr> </table>	HEALTH	2	FLAMMABILITY	3	PHYSICAL HAZARD	0	PERSONAL PROTECTION	G
HEALTH	2								
FLAMMABILITY	3								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	G								
2.3 Other Hazards	<p>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.</p>								





Picric Acid- Acetone Solution 0.1%

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	%
Acetone	67-64-1	200-662-2	 Danger. 2 H225 Highly Flammable liquid and vapour.  Warning. 2 H319 Causes serious eye irritation. STOT 3 H336 May cause drowsiness or dizziness	≤ 75%
Picric Acid	88-89-1	201-865-9	 Danger. Div 1.1 H201 Explosive; mass explosion hazard  Danger. 3 H301 Toxic if swallowed. 3 H311 Toxic in contact with skin. 3 H331 Toxic if inhaled.	≤ 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. 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	None
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

Picric Acid- Acetone Solution 0.1%

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: Acetone OSHA PEL: 1,000 ppm (2,400 mg/m³) TWA NIOSH REL: 250 ppm (590 mg/m³) TWA ACGIH: 500 ppm (1,188 mg/m³) TWA 750 ppm (1,782 mg/m³) STEL</p> <p>Picric Acid NIOSH REL : TWA 0.1 mg/m³ ST 0.3 mg/m³ [skin] OSHA PEL : TWA 0.1 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

Picric Acid- Acetone Solution 0.1%

Physical State	Liquid
Color	Yellow.
Odor	Acetone 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 acids, bases, and oxidizers.
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. May be 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).

Picric Acid- Acetone Solution 0.1%

	None of the components are listed. National Toxicology Program (NTP). None of the components are listed.
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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: 1090 ADR/RID: 1090 IMDG: 1090 IATA: 1090
14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR	ADR/RID: Acetone IMDG: Acetone IATA: Acetone DOT: Acetone
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

Picric Acid- Acetone Solution 0.1%

	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	<p>Acetone Massachusetts Pennsylvania New Jersey</p> <p>Picric Acid Massachusetts Pennsylvania New Jersey</p>
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
R phrases	<p>R4 EN: Forms very sensitive explosive metallic compounds. DA: Danner meget følsomme eksplosive metalforbindelser. DE: Bildet hochempfindliche explosionsgefährliche Metallverbindungen. EL: Σχηματίζει πολύ ευαίσθητες εκρηκτικές μεταλλικές ενώσεις. ES: Forma compuestos metálicos explosivos muy sensibles. FR: Forme des composés métalliques explosifs tres sensibles. IT: Forma composti metallici esplosivi molto sensibili. NL: Vormt met metalen zeer gemakkelijk ontplofbare verbindingen. PT: Forma compostos metálicos explosivos muito sensíveis. SV: Bildar mycket känsliga explosiva metallföreningar.</p> <p>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.</p> <p>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.</p>

Picric Acid- Acetone Solution 0.1%

	<p>NL: Irriterend voor de ogen. PT: Irritante para os olhos. SV: Irriterar ögonen.</p> <p>R67 EN: Vapours may cause drowsiness and dizziness. DA: Damppe kan give sløvhed og svimmelhed. DE: Dämpfe können Schläfrigkeit und Benommenheit verursachen. EL: Η εισπνοή ατμών μπορεί να προκαλέσει υπνηλία και ζάλη. ES: La inhalación de vapores puede provocar somnolencia y vértigo. FR: L'inhalation de vapeurs peut provoquer somnolence et vertiges. IT: L'inalazione dei vapori può provocare sonnolenza e vertigini. NL: Dampen kunnen slaperigheid en duizeligheid veroorzaken. PT: Pode provocar sonolência e vertigens, por inalação dos vapores. SV: Ångor kan göra att man blir dåsig och omtöcknad.</p>
<p>S phrases</p>	<p>S9 EN: Keep container in a well-ventilated place. DA: Emballagen skal opbevares på et godt ventileret sted. DE: Behälter an einem gut gelüfteten Ort aufbewahren. EL: Το δοχείο να διατηρείται σε καλά αεριζόμενο μέρος. ES: Conservese el recipiente en lugar bien ventilado. FR: Conserver le récipient dans un endroit bien ventilé. IT: Conservare il recipiente in luogo ben ventilato. NL: Op een goed geventileerde plaats bewaren. PT: Manter o recipiente num local bem ventilado. SV: Förpackningen förvaras på väl ventilerad plats.</p> <p>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'étincelles - 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.</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 πλύνετε 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 immédiatement 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 água e consultar um especialista. SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare.</p> <p>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</p>

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	<p>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>S35</p> <p>EN: This material and its container must be disposed of in a safe way.</p> <p>DA: Materialet og dets beholder skal bortskaffes på en sikker måde.</p> <p>DE: Abfälle und Behälter müssen in gesicherter Weise beseitigt werden.</p> <p>EL: Το υλικό και ο περιέκτης του πρέπει να διατεθεί με ασφαλή τρόπο.</p> <p>ES: Elimínense los residuos del producto y sus recipientes con todas las precauciones posibles.</p> <p>FR: Ne se débarrasser de ce produit et de son récipient qu'en prenant toutes précautions d'usage.</p> <p>IT: Non disfarsi del prodotto e del recipiente se non con le dovute precauzioni.</p> <p>NL: Deze stof en de verpakking op veilige wijze afvoeren.</p> <p>PT: Não se desfazer deste produto e do seu recipiente sem tomar as precauções de segurança devidas.</p> <p>SV: Produkt och förpackning skall oskadliggöras på säkert sätt.</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: Usense indumentaria y guantes adecuados y protección para los ojos/la cara.</p> <p>FR: Porter un vêtement de protection approprié, 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 επικήτα 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

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