


## Picric Acid- Acetone Solution 0.1%




### Section 1. Identification

<b>1.1 Product Identifier</b>	Product Name: Picric Acid- Acetone Solution (0.1%) Product Number: SSC1106	
<b>1.2 Intended use</b>	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.	
<b>1.3 Details of the supplier of the safety data sheet</b>	<b>Manufacturer</b>	Cancer Diagnostics, Inc.
	<b>Address</b>	116 Page Point Circle Durham, NC 27703
	<b>Phone Number</b>	1-877-846-5393
	<b>Fax Number</b>	1-877-817-1716
	<b>e-mail</b>	<a href="mailto:compliance@cancerdiagnostics.com">compliance@cancerdiagnostics.com</a>
	<b>Website</b>	<a href="http://www.cancerdiagnostics.com">www.cancerdiagnostics.com</a>

### Section 2. Hazards Identification

<b>2.1 GHS Classification</b>	Flammable liquids (Category 3) – H226 Eye irritation (Category 2A) – H319 Specific target organ toxicity SE (Category 3) – H336	
<b>Classification: Directive 1999/45/EC</b>		<b>F R4, R11, R36, R67; S9, S16, S26, S28, S35, S36/37/39, S45</b> EN: Highly flammable DA: Meget brandfarlig DE: Leichtentzündlich EL: Πολύ εύφλεκτο ES: Fácilmente inflamable FR: Facilement inflammable IT: Facilmente infiammabile NL: Licht ontvlambaar PT: Facilmente inflamável SV: Mycket brandfarligt

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	 <p><b>Xi</b>          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- &amp; S- phrases: see Section 15.</p>								
<b>2.2 Label Elements</b>	<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>								
<b>NFPA</b> Scale: 0-4									
<b>HMIS (U.S.A.)</b> 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								
<b>2.3 Other Hazards</b>	<p><b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT.  <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.</p>								





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### 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

<b>5.1 Extinguishing Media</b>	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
<b>5.2 Special hazards arising from the substance or mixture</b>	None
<b>5.3 Advice for firefighters</b>	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

### Section 6. Accidental Release Measures

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

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

### 6.2 Environmental precautions

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

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

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

## Section 7. Handling and Storage

### 7.1 Precautions for safe handling.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

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

Store in well ventilated area.

Keep container tightly closed.

Store at 15-30°C.

### 7.3 Specific end use(s).

See section 1.2

## Section 8. Exposure Controls / Personal Protection

<b>8.1 Control parameters</b>	<b>Exposure Limits:</b> Acetone <b>OSHA PEL:</b> 1,000 ppm (2,400 mg/m <sup>3</sup> ) TWA <b>NIOSH REL:</b> 250 ppm (590 mg/m <sup>3</sup> ) TWA <b>ACGIH:</b> 500 ppm (1,188 mg/m <sup>3</sup> ) TWA 750 ppm (1,782 mg/m <sup>3</sup> ) STEL Picric Acid <b>NIOSH REL</b> : TWA 0.1 mg/m <sup>3</sup> ST 0.3 mg/m <sup>3</sup> [skin] <b>OSHA PEL</b> : TWA 0.1 mg/m <sup>3</sup> [skin]
<b>8.2 Exposure controls</b>	<b>Personal Protective Equipment (PPE):</b> <b>Eye/Face protection.</b> Safety glasses or goggles are required. <b>Skin protection.</b> Protective clothing is required. <b>Hand protection.</b> Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove. <b>Respiratory protection.</b> Avoid breathing vapor. <b>Environmental exposure controls.</b> Avoid releasing large quantities into the environment. No additional information.
<b>Engineering Controls</b>	Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

## Section 9. Physical and Chemical Properties

## 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.	<b>Acute Toxicity.</b> No relevant data available <b>Skin Corrosion/Irritation.</b> May be irritating to skin and mucous membranes. <b>Serious Eye Damage/Irritation.</b> Seriously irritating to eye. <b>Respiratory or skin sensitization.</b> No relevant data available. <b>Germ Cell Mutagenicity.</b> No relevant data available.
Carcinogenicity.	International Agency for Research on Cancer (IARC).

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	None of the components are listed. <b>National Toxicology Program (NTP).</b> None of the components are listed.
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### Section 12. Ecological Information

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

### Section 13. Disposal Considerations

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

### Section 14. Transport Information

<b>14.1 UN Number DOT, IATA,IMDG, ADR</b>	DOT: 1090 ADR/RID: 1090 IMDG: 1090 IATA: 1090
<b>14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR</b>	ADR/RID: Acetone IMDG: Acetone IATA: Acetone DOT: Acetone
<b>14.3 Transport Hazard Class(es)</b>	<b>DOT:3</b> <b>IATA: 3</b> <b>IMDG: 3</b> <b>ADR/RID:3</b> 
<b>14.4 Packing Group DOT, IATA,IMDG, ADR</b>	ADR/RID: II IMDG: II IATA: II

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	DOT: II
<b>14.5 Environmental Hazards</b>	<b>Marine Pollutant:</b> No
<b>14.6 Special Precautions for User</b>	Not applicable.

### Section 15. Regulatory Information

<b>15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.</b>	
<b>Extremely Hazardous Substances; Section 355</b>	None of the components in this mixture are listed.
<b>Toxic Substances Control Act; TSCA</b>	All of the components in this mixture are listed.
<b>California Proposition 65</b>	None of the components in this mixture are listed.
<b>Right To Know Components</b>	<p><b>Acetone</b>            Massachusetts            Pennsylvania            New Jersey</p> <p><b>Picric Acid</b>            Massachusetts            Pennsylvania            New Jersey</p>
<b>15.2 Chemical Safety Assessment</b>	No Chemical Safety Assessment has been carried out for this substance/mixture by Cancer Diagnostics, Inc.
<b>R phrases</b>	<p><b>R4</b>            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><b>R11</b>            EN: Highly flammable.            DA: Meget brandfarlig.            DE: Leichtentzündlich.            EL: Πολύ εύφλεκτο.            ES: Fácilmente inflamable.            FR: Facilement inflammable.            IT: Facilmente infiammabile.            NL: Licht ontvlambaar.            PT: Facilmente inflamável.            SV: Mycket brandfarligt.</p> <p><b>R36</b>            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>

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	<p>NL: Irriterend voor de ogen.          PT: Irritante para os olhos.          SV: Irriterar ögonen.</p> <p><b>R67</b>          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>
<p><b>S phrases</b></p>	<p><b>S9</b>          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><b>S16</b>          EN: Keep away from sources of ignition - No smoking.          DA: Holdes væk fra antændelseskilder - Rygning forbudt.          DE: Von Zündquellen fernhalten - Nicht rauchen.          EL: Μακριά από πηγές ανάφλεξης - Απαγορεύεται το κάπνισμα.          ES: Conservar alejado de toda llama o fuente de chispas - No fumar.          FR: Conserver a l'ecart de toute flamme ou source d'étincelles - Ne pas fumer.          IT: Conservare lontano da fiamme e scintille - Non fumare.          NL: Verwijderd houden van ontstekingsbronnen - Niet roken.          PT: Manter afastado de qualquer chama ou fonte de ignição - Não fumar.          SV: Förvaras åtskilt från antändningskällor - Rökning förbjuden.</p> <p><b>S26</b>          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><b>S28</b>          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><b>S35</b></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><b>S36/37/39</b></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><b>S45</b></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 επικάτα αν είναι δυνατό).</p> <p>ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).</p> <p>FR: En cas d'accident ou de malaise, consulter immédiatement un medecin (si possible lui montrer l'etiquette).</p> <p>IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta).</p> <p>NL: Bij een ongeval of indien men zich onwel voelt, onmiddellijk een arts raadplegen (indien mogelijk hem dit etiket tonen).</p> <p>PT: Em caso de acidente ou de indisposição, consultar imediatamente o médico (se possível mostrar-lhe o rótulo).</p> <p>SV: Vid olycksfall, illamående eller annan påverkan, kontakta omedelbart läkare. Visa om möjligt etiketten.</p>
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### Section 16. Other Information

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

**Notice to Reader:**

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