


## Borax (Sodium Borate) Solution 5%



### Section 1. Identification

<b>1.1 Product Identifier</b>	Product Name: Borax (Sodium Borate) Solution 5% Product Number: SSC1126	
<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 Classification: Regulation (EC) No 1272/2008 (CLP)</b>	Reproductive toxicity (Category 1B), H360
<b>Classification: OSHA 29 CFR 1910.1200 HCS</b>	Reproductive toxicity (Category 1B), H360
<b>Classification: Directive 1999/45/EC</b>	 <b>T, R60, R61, S45, S53</b> EN: Toxic DA: Giftig DE: Giftig EL: Τοξικό ES: Tóxico FR: Toxique IT: Tossico NL: Vergiftig PT: Tóxico SV: Giftig

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	For full text of R- & S- phrases: see Section 15.		
<b>2.2 Label Elements</b>	Pictogram(s): 		
	Signal word:	Danger	
	Hazard statement(s):	H360 – May damage fertility or the unborn child.	
	Precautionary statement(s):	P280 – Wear protective gloves/protective clothing/eye protection/face protection P308 + P313 – IF exposed or concerned: Get medical advice/attention	
<b>NFPA Scale: 0-4</b>			
<b>HMIS (U.S.A.) Scale: 0-4</b>	HEALTH	1	
	FLAMMABILITY	0	
	PHYSICAL HAZARD	0	
	PERSONAL PROTECTION	C	
<b>2.3 Other Hazards</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 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	%
Sodium Tetraborate	1303-96-4	215-540-4	 Danger. H360 May damage fertility or the unborn child.	≤ 5

### Section 4. First Aid Measures

#### 4.1 Description of first aid measures

**Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with copious amounts of water. Get immediate medical attention if concerned or 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.

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**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 medical attention if you feel unwell.

**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>	Borane/born oxides, Sodium oxides.
<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

**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> Sodium Tetraborate: NIOSH REL: TWA 1 mg/m <sup>3</sup> OSHA PEL <sub>T</sub> : none
<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>

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	<p>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><b>Respiratory protection.</b>          Avoid breathing vapor.</p> <p><b>Environmental exposure controls.</b>          Avoid releasing large quantities into the environment.          No additional information.</p>
<b>Engineering Controls</b>	<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

<b>Physical State</b>	Liquid
<b>Color</b>	Transparent
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Unknown
<b>pH</b>	Unknown
<b>Melting Point/ Freezing Point</b>	Unknown
<b>Initial Boiling Point</b>	Unknown
<b>Flash Point</b>	Unknown
<b>Evaporation Rate</b>	Unknown
<b>Flammability (solid, gas)</b>	Unknown
<b>Upper/Lower Flammability Limits</b>	Unknown
<b>Vapor Pressure</b>	Unknown
<b>Vapor Density</b>	Unknown
<b>Relative Density</b>	Unknown
<b>Solubility(ies)</b>	Water
<b>Partition Coefficient: n-octanol/water</b>	Unknown
<b>Auto-Ignition Temperature</b>	Unknown
<b>Decomposition Temperature</b>	Unknown
<b>Viscosity</b>	Unknown
<b>Explosive Properties</b>	Not explosive.
<b>Oxidizing Properties</b>	Unknown

### Section 10. Stability and Reactivity

<b>10.1 Reactivity</b>	No relevant data available.
<b>10.2 Chemical Stability</b>	Stable under normal temperatures and pressures.
<b>10.3 Possibility of Hazardous Reactions</b>	No hazardous reactions known.
<b>10.4 Conditions to Avoid</b>	Fire, static electricity, direct sunlight.
<b>10.5 Incompatible Materials</b>	Strong oxidizing agents. Strong reducing agents.
<b>10.6 Hazardous Decomposition Materials</b>	None known.

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### Section 11. Toxicological Information

<b>11.1 Information on Toxicological Effects.</b>	<b>Acute Toxicity.</b> Sodium Tetraborate: LD50 Oral - rat - 4,500-5,000 mg/kg LD50 Dermal - rabbit - 10,000 mg/kg <b>Skin Corrosion/Irritation.</b> May be irritating to skin and mucous membranes. <b>Serious Eye Damage/Irritation.</b> May be irritating to eyes. <b>Respiratory or skin sensitization.</b> No relevant data available. <b>Germ Cell Mutagenicity.</b> No relevant data available.
<b>Carcinogenicity.</b>	<b>International Agency for Research on Cancer (IARC).</b> None of the components are listed. <b>National Toxicology Program (NTP).</b> None of the components are listed.

### Section 12. Ecological Information

<b>12.1 Toxicity</b>	<b>Fish:</b> sodium tetraborate; LC50 - Carassius auratus (goldfish) - 178 mg/l - 72 h <b>Crustacea:</b> No relevant studies identified. <b>Algae/Aquatic Plants:</b> sodium tetraborate ; IC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96 h. <b>Other Organisms:</b> sodium tetraborate; Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 1,085 - 1, 402 mg/l - 48 h
<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: Not dangerous goods. ADR/RID: Not dangerous goods.
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	IMDG: Not dangerous goods. IATA: Not dangerous goods.
<b>14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR</b>	ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. DOT: Not dangerous goods.
<b>14.3 Transport Hazard Class(es)</b>	DOT: Not dangerous goods. IATA: Not dangerous goods. IMDG: Not dangerous goods. ADR/RID: Not dangerous goods.
<b>14.4 Packing Group DOT, IATA,IMDG, ADR</b>	ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. DOT: Not dangerous goods.
<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>	Disodium Tetraborate decahydrate: Massachusetts Pennsylvania New Jersey
<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>R60</b>            EN: This material and its container must be disposed of as hazardous waste.            DA: Kan skade forplantningsevnen.            DE: Dieses Produkt und sein Behälter sind als gefährlicher Abfall zu entsorgen.            EL: Μπορεί να εξασθενίσει τη γονιμότητα.            ES: Elimínense el producto y su recipiente como residuos peligrosos.            FR: Éliminer le produit et son récipient comme un déchet dangereux.            IT: Questo materiale e il suo contenitore devono essere smaltiti come rifiuti pericolosi.            NL: Kan de vruchtbaarheid schaden.            PT: Pode comprometer a fertilidade.            SV: Kan ge nedsatt fortplantningsförmåga.</p> <p><b>R61</b>            EN: May cause harm to the unborn child.            DA: Kan skade barnet under graviditeten.            DE: Kann das Kind im Mutterleib schädigen.            EL: Μπορεί να βλάψει το έμβρυο κατά τη διάρκεια της κύησης.            ES: Riesgo durante el embarazo de efectos adversos para el feto.            FR: Risque pendant la grossesse d'effets néfastes pour l'enfant.            IT: Può danneggiare i bambini non ancora nati.            NL: Kan het ongeboren kind schaden.</p>

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	<p>PT: Risco durante a gravidez com efeitos adversos na descendência.          SV: Kan ge fosterskador.</p>
<p><b>S phrases</b></p>	<p><b>S45</b>          EN: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).          DA: Ved ulykkestilfælde eller ved ildebefindende er omgående lægebehandling nødvendig; vis etiketten, hvis det er muligt.          DE: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen).          EL: Σε περίπτωση ατυχήματος ή αν αισθανθείτε αδιαθεσία ζητήστε αμέσως ιατρική συμβουλή (δείξτε την ετικέτα αν είναι δυνατό).          ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).          FR: En cas d'accident ou de malaise, consulter immédiatement un medecin (si possible lui montrer l'étiquette).          IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta).          NL: Bij een ongeval of indien men zich onwel voelt, onmiddellijk een arts raadplegen (indien mogelijk hem dit etiket tonen).          PT: Em caso de acidente ou de indisposição, consultar imediatamente o médico (se possível mostrar-lhe o rótulo).          SV: Vid olycksfall, illamående eller annan påverkan, kontakta omedelbart läkare. Visa om möjligt etiketten.</p> <p><b>S53</b>          EN: Avoid exposure — obtain special instructions before use.          DA: Undgå enhver kontakt — indhent særlige anvisninger før brug.          DE: Exposition vermeiden — vor Gebrauch besondere Anweisungen einholen.          EL: Αποφεύγετε την έκθεση — εφοδιαστείτε με τις ειδικές οδηγίες πριν από τη χρήση.          ES: Evítese la exposición — recábense instrucciones especiales antes del uso.          FR: Éviter l'exposition — se procurer des instructions spéciales avant l'utilisation.          IT: Evitare l'esposizione — procurarsi speciali istruzioni prima dell'uso.          NL: Blootstelling vermijden — vóór gebruik speciale aanwijzingen raadplegen.          PT: Evitar a exposição — obter instruções específicas antes da utilização.          SV: Undvik exponering — Begär specialinstruktioner före användning.</p>

### 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.*