

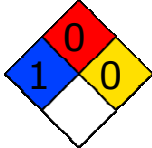


Section 1. Identification of the Substance/Mixture and the Company

1.1 Product Identifier	Product Name: Borax Solution Product Number: HBOR	
1.2 Intended use	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.	
1.3 Details of the supplier of the safety data sheet	Manufacturer	Teomics, LLC.
	Address	Energy Research Park 5000 Gulf Freeway, Bldg 5 (114) Houston, Texas 77023
	Phone Number	800-397-3010
	e-mail	msds@teomics.com
	Website	teomics.com

Section 2. Hazards Identification

2.1 Classification: Regulation (EC) No 1272/2008 (CLP)	Reproductive toxicity (Category 1B), H360	
Classification: OSHA 29 CFR 1910.1200 HCS	Reproductive toxicity (Category 1B), H360	
Classification: Directive 1999/45/EC	 T, R60, R61, S45, S53 EN: Toxic DA: Giftig DE: Giftig EL: Τοξικό ES: Tóxico FR: Toxique IT: Tossico NL: Vergiftig PT: Tóxico SV: Giftig	


For full text of R- & S- phrases: see Section 15.									
2.2 Label Elements	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								
NFPA Scale: 0-4									
HMIS (U.S.A.) Scale: 0-4	<table border="1"> <tr> <td>HEALTH</td> <td>1</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>C</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	PHYSICAL HAZARD	0	PERSONAL PROTECTION	C
HEALTH	1								
FLAMMABILITY	0								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	C								
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	%
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.

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

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	Borane/born oxides, Sodium oxides.
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: Sodium Tetraborate: NIOSH REL: TWA 1 mg/m ³ OSHA PEL _T : none
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.

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

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	<p>Acute Toxicity. Sodium Tetraborate: LD50 Oral - rat - 4,500-5,000 mg/kg LD50 Dermal - rabbit - 10,000 mg/kg</p> <p>Skin Corrosion/Irritation. May be irritating to skin and mucous membranes.</p> <p>Serious Eye Damage/Irritation. May be irritating to eyes.</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: sodium tetraborate; LC50 - Carassius auratus (goldfish) - 178 mg/l - 72 h</p> <p>Crustacea: No relevant studies identified.</p> <p>Algae/Aquatic Plants: sodium tetraborate ; IC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96 h.</p> <p>Other Organisms: sodium tetraborate; Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 1,085 - 1,402 mg/l - 48 h</p>
12.2 Persistence and Degradability.	<p>No relevant studies identified.</p>
12.3 Bioaccumulative Potential.	<p>No relevant studies identified.</p>
12.4 Mobility in Soil.	<p>Miscible in water. May spread in water systems. This component is non-volatile.</p>
Additional Remarks	<p>None.</p>
12.5 Results of PBT and vPvB Assessment.	<p>PBT: This mixture does not contain any substances that are assessed to be a PBT.</p> <p>vPvB: This mixture does not contain any substances that are assessed to be a vPvB.</p>

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	<p>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.</p>
Product/Packaging Disposal.	<p>Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.</p>
Other Disposal Recommendations.	<p>No relevant data available.</p>

Section 14. Transport Information

14.1 UN Number DOT, IATA, IMDG, ADR	<p>DOT: Not dangerous goods. ADR/RID: Not dangerous goods.</p>
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	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	Disodium Tetraborate decahydrate: Massachusetts Pennsylvania New Jersey
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Teomics, LLC.
R phrases	<p>R60 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: Eliminer 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>R61 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.</p>

	<p>NL: Kan het ongeboren kind schaden. PT: Risco durante a gravidez com efeitos adversos na descendência. SV: Kan ge fosterskador.</p>
S phrases	<p>S45 EN: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). DA: Ved ulykkestilfælde eller ved ildebefindende er omgående lægebehandling nødvendig; vis etiketten, hvis det er muligt. DE: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen). EL: Σε περίπτωση ατυχήματος ή αν αισθανθείτε αδιαθεσία ζητήστε αμέσως ιατρική συμβουλή (δείξτε την ετικέτα αν είναι δυνατό). ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta). FR: En cas d'accident ou de malaise, consulter immédiatement un medecin (si possible lui montrer l'etiquette). IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta). NL: Bij een ongeval of indien men zich onwel voelt, onmiddellijk een arts raadplegen (indien mogelijk hem dit etiket tonen). PT: Em caso de acidente ou de indisposição, consultar imediatamente o médico (se possível mostrar-lhe o rótulo). SV: Vid olycksfall, illamående eller annan påverkan, kontakta omedelbart läkare. Visa om möjligt etiketten.</p> <p>S53 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

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