

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078042503

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078943062

## 1 . Product and company identification

**Product name** : MULTISTIX 10 SG  
**Code** : 2161  
**Material uses** : Diagnostic Agents  
**Product type** : Solid.  
**Manufactured/supplied** : Siemens Healthcare Diagnostics Inc.  
1717 Deerfield Road  
Deerfield, IL 60015-0778  
1-847-267-5300

Siemens Healthcare Diagnostics Ltd.  
1200 Courtneypark Drive East  
Mississauga, Ontario, Canada  
L5T-1P2  
(905) 564-7333  
(800) 264-0083

**In case of emergency** : Transportation: (800) 424-9300 (CHEMTREC)  
Medical: (800) 228-5635 ext. 284 (Prosar)

## 2 . Hazards identification

**Physical state** : Solid.  
**Odor** : Odorless.  
**OSHA/HCS status** : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Emergency overview** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.  
No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.  
Not available.

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : No known significant effects or critical hazards.  
**Eyes** : No known significant effects or critical hazards.

### Potential chronic health effects

**Chronic effects** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Inhalation** : No specific data.  
**Ingestion** : No specific data.  
**Skin** : No specific data.  
**Eyes** : No specific data.

**See toxicological information (section 11)**

### 3 . Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

### 5 . Fire-fighting measures

**Flammability of the product** : No specific fire or explosion hazard.

**Extinguishing media**

In case of fire, use water spray (fog), foam or dry chemical.

**Not suitable** : None known.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Hazardous combustion products** : No specific data.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

### 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

- Physical state** : Solid.
- Color** : White.
- Odor** : Odorless.

## 10 . Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : No specific data.  
Not available.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11 . Toxicological information

### United States

#### Acute toxicity

Not available.

#### Chronic toxicity

Not available.

#### Carcinogenicity

Not available.

#### Mutagenicity

Not available.

#### Teratogenicity

Not available.

#### Reproductive toxicity

Not available.

### Canada

#### Acute toxicity

Not available.

#### Chronic toxicity

Not available.

#### Carcinogenicity

Not available.

#### Mutagenicity

Not available.

#### Teratogenicity

Not available.

#### Reproductive toxicity

Not available.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### United States

#### Aquatic ecotoxicity

Not available.

#### Biodegradability

Not available.

### Canada

#### Aquatic ecotoxicity

Not available.

#### Biodegradability

Not available.

## 13 . Disposal considerations

### Waste disposal

- : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

## 15 . Regulatory information

### United States

#### HCS Classification

- : Not regulated.

#### U.S. Federal regulations

- : **United States inventory (TSCA 8b):** Not determined.

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** No products were found.

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** No products were found.

**Clean Water Act (CWA) 307:** No products were found.

**Clean Water Act (CWA) 311:** No products were found.

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

#### State regulations

- : **Connecticut Carcinogen Reporting:** None of the components are listed.
- Connecticut Hazardous Material Survey:** None of the components are listed.
- Florida substances:** None of the components are listed.
- Illinois Chemical Safety Act:** None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.
- Louisiana Reporting:** None of the components are listed.
- Louisiana Spill:** None of the components are listed.

## 15 . Regulatory information

**Massachusetts Spill:** None of the components are listed.  
**Massachusetts Substances:** None of the components are listed.  
**Michigan Critical Material:** None of the components are listed.  
**Minnesota Hazardous Substances:** None of the components are listed.  
**New Jersey Hazardous Substances:** None of the components are listed.  
**New Jersey Spill:** None of the components are listed.  
**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.  
**New York Acutely Hazardous Substances:** None of the components are listed.  
**New York Toxic Chemical Release Reporting:** None of the components are listed.  
**Pennsylvania RTK Hazardous Substances:** None of the components are listed.  
**Rhode Island Hazardous Substances:** None of the components are listed.

**United States inventory (TSCA 8b)** : Not determined.

### Canada

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
**Canadian lists** : **CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** None of the components are listed.  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16 . Other information

### EU regulations

**Risk phrases** : This product is not classified according to EU legislation.

### International regulations

**International lists** : **Australia inventory (AICS):** Not determined.  
**China inventory (IECSC):** Not determined.  
**Japan inventory (ENCS):** Not determined.  
**Japan inventory (ISHL):** Not determined.  
**Korea inventory (KECI):** Not determined.  
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.  
**Philippines inventory (PICCS):** Not determined.

**Date of printing** : 1/19/2009.

**Date of issue** : 1/19/2009.

**Version** : 1

### 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.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# Material Safety Data Sheet

**SIEMENS****MULTISTIX 10 SG**

MSDS no.

2161

## 1 . Product and company identification

**Product name** : MULTISTIX 10 SG

**Code** : 2161, 10336425, 2300A, 10339493, 2169, 10339695, 08566001, 2292, 10319565, 03783489

**Material uses** : Diagnostic Agents

**Product type** : Solid.

**Manufactured/supplied** : Siemens Healthcare Diagnostics Inc.  
511 Benedict Avenue  
Tarrytown, NY 10591-5097 USA  
1-877-229-3711

**In case of emergency** : (800) 424-9300 (CHEMTREC)

## 2 . Hazards identification

**Physical state** : Solid.

**Odor** : Odorless.

**OSHA/HCS status** : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Emergency overview** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.  
No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.  
Not available.

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Skin** : No known significant effects or critical hazards.

**Eyes** : No known significant effects or critical hazards.

### Potential chronic health effects

**Chronic effects** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Target organs** : Not available.

### Over-exposure signs/symptoms

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin** : No specific data.

**Eyes** : No specific data.

**See toxicological information (Section 11)**



### 3 . Composition/information on ingredients

#### United States

<u>Name</u>	<u>CAS number</u>	<u>%</u>
boric acid	10043-35-3	0.11328

#### Canada

<u>Name</u>	<u>CAS number</u>	<u>%</u>
boric acid	10043-35-3	0.11328

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4 . First aid measures

<b>Eye contact</b>	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
<b>Inhalation</b>	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

### 5 . Fire-fighting measures

<b>Flammability of the product</b>	: No specific fire or explosion hazard.
<b>Extinguishing media</b>	In case of fire, use water spray (fog), foam or dry chemical.
<b>Not suitable</b>	: None known.
<b>Special exposure hazards</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Hazardous combustion products</b>	: No specific data.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6 . Accidental release measures

<b>Personal precautions</b>	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
<b>Environmental precautions</b>	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Small spill</b>	: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure controls/personal protection

### Product name

### Exposure limits

#### United States

boric acid

#### **ACGIH TLV (United States, 6/2013).**

STEL: 6 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction

#### Canada

boric acid

#### **CA British Columbia Provincial (Canada, 7/2013).**

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable

STEL: 6 mg/m<sup>3</sup> 15 minutes. Form: Inhalable

#### **CA Ontario Provincial (Canada, 1/2013).**

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction

STEL: 6 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction

### **Consult local authorities for acceptable exposure limits.**

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

#### **Respiratory**

- : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### **Hands**

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### **Eyes**

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin**

- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 8 . Exposure controls/personal protection

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

**Physical state** : Solid.  
**Color** : White.  
**Odor** : Odorless.  
**VOC** : 0.000083 % (w/w)

## 10 . Stability and reactivity

**Stability** : The product is stable.  
**Conditions to avoid** : No specific data.  
**Materials to avoid** : No specific data.  
 Not available.  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11 . Toxicological information

### United States

#### Acute toxicity

Not available.

#### Chronic toxicity

Not available.

#### Carcinogenicity

Not available.

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
boric acid	A4	-	-	None.	-	-

#### Mutagenicity

Not available.

#### Teratogenicity

Not available.

#### Reproductive toxicity

Not available.

### Canada

#### Acute toxicity

Not available.

#### Chronic toxicity

Not available.

#### Carcinogenicity

Not available.

## 11 . Toxicological information

### Classification

#### Product/ingredient name

boric acid

#### ACGIH

A4

#### IARC

-

#### EPA

-

#### NIOSH

None.

#### NTP

-

#### OSHA

-

### Mutagenicity

Not available.

### Teratogenicity

Not available.

### Reproductive toxicity

Not available.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### United States

#### Aquatic ecotoxicity

#### Product/ingredient name

boric acid

#### Test

US EPA

#### Result

Acute EC50 777  
ppm Fresh water

#### Species

Daphnia - Water  
flea - Daphnia  
magna - <24  
hours

#### Exposure

48 hours

US EPA

Acute EC50 226  
ppm Fresh waterDaphnia - Water  
flea - Daphnia  
magna - <24  
hours

48 hours

-

Acute LC50 137.  
99 mg/l Marine  
waterCrustaceans -  
Opossum shrimp  
- Americamysis  
bahia - Juvenile  
(Fledgling,  
Hatchling,  
Weanling) - <24  
hours

48 hours

-

Acute LC50 92.  
83 to 148 mg/l  
Marine waterCrustaceans -  
Opossum shrimp  
- Americamysis  
bahia - Juvenile  
(Fledgling,  
Hatchling,  
Weanling) - <24  
hours

48 hours

-

Acute LC50 89.  
07 to 100.7 mg/l  
Marine waterCrustaceans -  
Opossum shrimp  
- Americamysis  
bahia - Juvenile  
(Fledgling,  
Hatchling,  
Weanling) - <24  
hours

48 hours

-

Acute LC50 84.  
28 mg/l Marine  
waterCrustaceans -  
Opossum shrimp  
- Americamysis  
bahia - Juvenile  
(Fledgling,  
Hatchling,  
Weanling) - <24  
hours

48 hours

## 12 . Ecological information

US EPA	Acute LC50 100 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 2.3 g	96 hours
-	Acute LC50 226000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
-	Acute LC50 133000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
-	Acute LC50 125000 to 162000 µg/l Fresh water	Fish - Flannelmouth sucker - Catostomus latipinnis - Larvae - 12 to 13 days	96 hours
-	Acute LC50 100000 µg/l Fresh water	Fish - Colorado squawfish - Ptychocheilus lucius - Juvenile (Fledgling, Hatchling, Weanling) - 99 to 115 days - 0.4 to 1.1 g	96 hours
US EPA	Chronic NOEC 6.4 ppm Marine water	Daphnia - Water flea - Daphnia magna	21 days
-	Chronic NOEC 6000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	21 days
-	Chronic NOEC 2100 µg/l Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	87 days

### Biodegradability

Not available.

### Canada

#### Aquatic ecotoxicity

##### **Product/ingredient name**

boric acid

##### **Test**

US EPA

##### **Result**

Acute EC50 777 ppm Fresh water

##### **Species**

Daphnia - Water flea - Daphnia magna - <24 hours

##### **Exposure**

48 hours

US EPA

Acute EC50 226 ppm Fresh water

Daphnia - Water flea - Daphnia magna - <24 hours

48 hours

-

Acute LC50 137.99 mg/l Marine water

Crustaceans - Opossum shrimp - Americamysis

48 hours

## 12 . Ecological information

-	Acute LC50 92.83 to 148 mg/l Marine water	bahia - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours Crustaceans - 48 hours Opossum shrimp - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours
-	Acute LC50 89.07 to 100.7 mg/l Marine water	Crustaceans - 48 hours Opossum shrimp - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours
-	Acute LC50 84.28 mg/l Marine water	Crustaceans - 48 hours Opossum shrimp - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours
US EPA	Acute LC50 100 ppm Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss - 2.3 g 96 hours
-	Acute LC50 226000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours 48 hours
-	Acute LC50 133000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate 48 hours
-	Acute LC50 125000 to 162000 µg/l Fresh water	Fish - Flannelmouth sucker - Catostomus latipinnis - Larvae - 12 to 13 days 96 hours
-	Acute LC50 100000 µg/l Fresh water	Fish - Colorado squawfish - Ptychocheilus lucius - Juvenile (Fledgling, Hatchling, Weanling) - 99 to 115 days - 0.4 to 1.1 g 96 hours
US EPA	Chronic NOEC 6.4 ppm Marine	Daphnia - Water flea - Daphnia 21 days

## 12 . Ecological information

-	water Chronic NOEC 6000 µg/l Fresh water	magna Daphnia - Water flea - Daphnia magna - <24 hours	21 days
-	Chronic NOEC 2100 µg/l Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	87 days

### Biodegradability

Not available.

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport information

### International transport regulations

#### DOT Classification

UN number	Not regulated.
Proper shipping name	-
Classes	-
PG*	-
Label	
Additional information	-

#### TDG Classification

UN number	Not regulated.
Proper shipping name	-
Classes	-
PG*	-

## 14 . Transport information

### Label

Additional information -

### Mexico

#### Classification

UN number Not regulated.

Proper shipping name -

Classes -

PG\* -

### Label

Additional information -

### IMDG Class

UN number Not regulated.

Proper shipping name -

Classes -

PG\* -

### Label

Additional information -

### IATA-DGR Class

UN number Not regulated.

Proper shipping name -

Classes -

PG\* -

### Label

Additional information -

PG\* : Packing group

## 15 . Regulatory information

### United States

**HCS Classification** : Not regulated.

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** Not determined.

**SARA 302/304:** No products were found.

**SARA 311/312 Hazards identification:** Not regulated.

**Clean Water Act (CWA) 307:** arsanilic acid

**Clean Water Act (CWA) 311:** Iron chloride (FeCl<sub>3</sub>), hexahydrate



## 15 . Regulatory information

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

### State regulations

- Connecticut Carcinogen Reporting:** None of the components are listed.
- Connecticut Hazardous Material Survey:** None of the components are listed.
- Florida substances:** None of the components are listed.
- Illinois Chemical Safety Act:** None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.
- Louisiana Reporting:** None of the components are listed.
- Louisiana Spill:** None of the components are listed.
- Massachusetts Spill:** None of the components are listed.
- Massachusetts Substances:** None of the components are listed.
- Michigan Critical Material:** None of the components are listed.
- Minnesota Hazardous Substances:** None of the components are listed.
- New Jersey Hazardous Substances:** None of the components are listed.
- New Jersey Spill:** None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.
- New York Acutely Hazardous Substances:** None of the components are listed.
- New York Toxic Chemical Release Reporting:** None of the components are listed.
- Pennsylvania RTK Hazardous Substances:** None of the components are listed.
- Rhode Island Hazardous Substances:** None of the components are listed.

### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
arsanilic acid	Yes.	No.	0.06 µg/day (inhalation)	No.

### United States inventory (TSCA 8b)

- : Not determined.

Use only for medical diagnostic (R&D) purposes

### Canada

#### WHMIS (Canada)

- : Class D-2A: Material causing other toxic effects (Very toxic).

#### Canadian lists

- : **CEPA Toxic substances:** None of the components are listed.
- Canadian ARET:** None of the components are listed.
- Canadian NPRI:** None of the components are listed.
- Alberta Designated Substances:** None of the components are listed.
- Ontario Designated Substances:** None of the components are listed.
- Quebec Designated Substances:** None of the components are listed.

### Canada inventory

- : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16 . Other information

### EU regulations

#### Risk phrases

- : This product is not classified as dangerous according to EU legislation.

### International regulations

## 16 . Other information

**International lists** : **Australia inventory (AICS):** Not determined.  
**China inventory (IECSC):** Not determined.  
**Japan inventory:** Not determined.  
**Korea inventory:** Not determined.  
**Malaysia Inventory (EHS Register):** Not determined.  
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.  
**Philippines inventory (PICCS):** Not determined.  
**Taiwan inventory (CSNN):** Not determined.

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**Version** : 5.01

### 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.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.