SAFETY DATA SHEET

MULTISTIX 8 SG



SDS # :

2304

Section 1. Identification : MULTISTIX 8 SG **Product identifier** Product type : Solid. **Product code** : 2304, 10338877, 07599240, 10334035, 03096090, 10320335, 04200746, 10322217, 05258055 Relevant identified uses of the substance or mixture and uses advised against **Identified uses** Diagnostic agents. **Restrictions on use** For professional users only. : Siemens Healthcare Diagnostics Inc. Manufactured/supplied 511 Benedict Avenue Tarrytown, NY 10591-5097 USA 1-877-229-3711 In case of emergency : (800) 424-9300 (CHEMTREC) Section 2. Hazard identification : Not classified. Classification of the substance or mixture

GHS label elements		
Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Additional information	:	Not available.
		Not available.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture			
Ingredient name		% (w/w)	CAS number	
Boric acid		≥0.1 - ≤1	10043-35-3	

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary f	irst aid	measures	<u> </u>				
Eye contact	е		y flush eyes with plenty of neck for and remove any o				
Inhalation			ctim to fresh air and keep Il attention if symptoms o		comfortable for	breathing	g.
Skin contact			aminated skin with plenty t t medical attention if symp		ontaminated clo	othing an	d
Ingestion	is	s consciou	nouth with water. If mater s, give small quantities of do so by medical personr	water to drink. Do r	not induce vomi	ting unle	SS
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Section 4. First-aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate medic	al attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: In case of fire, use water spray (fog), foam or dry chemical.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: No specific data.
Special protective actions for fire-fighters	 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.
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.

Section 6. Accidental release measures

Personal precautions, protect	tiv	e equipment and emergency procedures
For non-emergency personnel	:	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.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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).

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Section 6. Accidental release measures

Methods and materials for containment and cleaning up

 Large spill Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. 	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.
	Large spill	basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13

Section 7. Handling and storage

Precautions for safe handling	g	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	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. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
₿ oric acid	CA British Columbia Provincial (Canada, 6/2021). [Borate compounds, Inorganic] TWA: 2 mg/m ³ 8 hours. Form: Inhalable STEL: 6 mg/m ³ 15 minutes. Form: Inhalable CA Saskatchewan Provincial (Canada, 7/2013). [Borate compounds, inorganic] STEL: 6 mg/m ³ 15 minutes. Form: Inhalable fraction TWA: 2 mg/m ³ 8 hours. Form: Inhalable fraction CA Ontario Provincial (Canada, 6/2019). [Borate compounds, Inorganic] TWA: 2 mg/m ³ 8 hours. Form: Inhalable particulate matter. STEL: 6 mg/m ³ 15 minutes. Form: Inhalable particulate matter. CA Quebec Provincial (Canada, 6/2021). [borate, inorganic compounds] STEV: 6 mg/m ³ 15 minutes. Form: inhalable dust TWAEV: 2 mg/m ³ 8 hours. Form: inhalable

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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Section 8. Exposure controls/personal protection

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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 equipmen will be necessary to reduce emissions to acceptable levels.
Individual protection measu	es
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.
Eye/face protection	: 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, gases or dusts. If contact is possible, the following protection should be worn, unles the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: 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.
Body protection	 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.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Solid.	
Color	: White.	
Odor	: Odorless.	
Odor threshold	r ₩ot available.	
рН	Not applicable.	
Melting point	Not available.	
Boiling point	Not relevant/applicable due to nature of the product.	
Flash point	Not relevant/applicable due to nature of the product.	
Fire point	Not relevant/applicable due to nature of the product.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not relevant/applicable due to nature of the product.	
Lower and upper explosive (flammable) limits	■ Not relevant/applicable due to nature of the product.	
Vapor pressure	Not available.	
Vapor density	Not relevant/applicable due to nature of the product.	
Relative density	: <mark>M</mark> ot available.	
Solubility(ies)	:	
Not available.		
	Not available.	
Partition coefficient: n- octanol/water	Not relevant/applicable due to nature of the product.	
Auto-ignition temperature	Not relevant/applicable due to nature of the product.	
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Section 9. Physical and chemical properties

Decomposition temperature	: Not available.
Viscosity	: Not relevant/applicable due to nature of the product.
Section 10. Stabili	y and reactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.

Incompatible materials	: No specific data.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Boric acid	Skin - Mild irritant	Human	-	72 hours 15	-
				mg I	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects Eye contact

: No known significant effects or critical hazards.

Section 11. Toxicological information

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

<u>Acute toxicity estimates</u> N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Boric acid	Acute LC50 45.5 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 133000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 75 mg/l Marine water	Fish - Pagrus major	96 hours
	Chronic NOEC 6000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2100 µg/l Fresh water	Fish - Oncorhynchus mykiss	87 days

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
B oric acid	-1.09	-	low

Mobility in soil

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Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : 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.

Section 14. Transport information

ΙΑΤΑ **UN number** Not regulated. **UN proper** shipping name Transport hazard class(es)

- Packing group Environmental No. hazards Additional information
- Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

<u>Canadian lists</u>	
Canadian NPRI	: None of the components are listed.
CEPA Toxic substances	: None of the components are listed.
Canada inventory	: Not determined.

Section 16. Other information

<u>History</u>	
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Section 16. Other information

Kay to abbraviations	ATE - Aquita Taviaity Estimate
Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
	HPR = Hazardous Products Regulations N/A = Not available SGG = Segregation
	Group
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Procedure used to derive the classification

Classification	Justification
Not classified.	

V Indicates information that has changed from previously issued version.

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.

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